SEQUENCE LISTING

<110> KEITH, TIM

<120> NOVEL HUMAN GENE RELATING TO RESPIRATORY DISEASES AND OBESITY

<130> 2976-4039US1

<140>
<141>

<150> 60/129,391
<151> 1999-04-13

<150> 60/146,336
<151> 1999-07-30

<150> 09/548,797
<151> 2000-04-13

<160> 363

<170> PatentIn Ver. 2.1

<210> 1
<211> 3626
<212> DNA
<213> Homo sapiens

<400> 1
cgggcacggg tcggccgcaa tccagcctgg gcggagccgg agttgcgagc cgctgcctag 60
aggccgagga gctcacagct atgggctgga ggccccggag agctcggggg accccgttgc 120
tgctgctgct actactgctg ctgctctggc cagtgccagg cgccgggggtg cttcaaggac 180
atatccctgg gcagccagtc accccgcact gggtcctgga tggacaaccc tggcgcaccg 240
tcagcctgga ggagccggtc tcgaagccag acatggggct ggtggccctg gaggctgaag 300
gccaggagct cctgcttgag ctggagaaga accacaggct gctggcccca ggatacatag 360
aaacccacta cggcccagat gggcagccag tggtgctggc ccccaaccac acggtgagat 420
gcttccatgg gctctgggat gcaccgccag aggatcattg ccactaccaa gggcgagtaa 480
ggggcttccc cgactcctgg gtagtcctct gcacctgctc tgggatgagt ggcctgatca 540
ccctcagcag gaatgccagc tattatctgc gtccctggcc acccctggggc tccaaggact 600
tctcaaccca cgagatcttt cggatggagc agctgctcac ctggaaagga acctgtggcc 660
acagggatcc tgggaacaaa gcgggcatga ccagccttcc tggtggtccc cagagcaggg 720
gcaggcgaga agcgcgcagg acccggaagt acctggaact gtacattgtg gcagaccaca 780
ccctgttctt gactcggcac cgaaacttga accacaccaa acagcgtctc ctggaagtcg 840
ccaactacgt ggaccagctt ctcaggactc tggacattca ggtggcgctg accggcctgg 900
aggtgtggac cgagcgggac cgcagccgcg tcacgcagga cgccaacgcc acgctctggg 960
ccttcctgca gtggcgccgg gggctgtggg cgcagcggcc ccacgactcc gcgcagctgc 1020
tcacgggccg cgccttccag ggcgccacag tgggcctggc gcccgtcgag ggcatgtgcc 1080
gcgccgagag ctcgggaggc gtgagcacgg accactcgga gctccccatc ggcgccgcag 1140
ccaccatggc ccatgagatc ggccacagcc tcggcctcag ccacgacccc gacggctgct 1200
gcgtggaggc tgcggccgag tccggaggct gcgtcatggc tgcggccacc gggcacccgt 1260
ttccgcgcgt gttcagcgcc tgcagccgcc gccagctgcg cgccttcttc cgcaaggggg 1320
gcggcgcttg cctctccaat gccccggacc ccggactccc ggtgccgccg gcgctctgcg 1380
ggaacggctt cgtggaagcg ggcgaggagt gtgactgcgg ccctggccag gagtgccgcg 1440
acctctgctg ctttgctcac aactgctcgc tgcgcccggg ggcccagtgc gcccacgggg 1500
actgctgcgt gcgctgcctg ctgaagccgg ctggagcgct gtgccgccag gccatgggtg 1560
actgtgacct ccctgagttt tgcacgggca cctcctccca ctgtccccca gacgtttacc 1620

tactggacgg ctcaccctgt gccaggggca gtggctactg ctgggatggc gcatgtccca 1680
cgctggagca gcagtgccag cagctctggg ggcctggctc ccacccagct cccgaggcct 1740
gtttccaggt ggtgaactct gcgggagatg ctcatggaaa ctgcggccag gacagcgagg 1800
gccacttcct gccctgtgca gggagggatg ccctgtgtgg gaagctgcag tgccagggtg 1860
gaaagcccag cctgctcgca ccgcacatgg tgccagtgga ctctaccgtt cacctagatg 1920
gccaggaagt gacttgtcgg ggagcctttgg cactccccag tgcccagctg gacctgcttg 1980
gcctgggcct ggtagagcca ggcacccagt gtggacctag aatggtgtgc cagagcaggc 2040
gctgcaggaa gaatgccttc caggagcttc agcgctgcct gactgcctgc cacagccacg 2100
gggtttgcaa tagcaaccat aactgccact gtgctccagg ctgggctcca ccctttctgtg 2160
acaagccagg ctttggtggc agcatggaca gtggccctgt gcaggctgaa aaccatgaca 2220
ccttcctgct ggccatgctc ctcagcgtcc tgctgcctct gctcccaggg gccggcctgg 2280
cctggtgttg ctaccgactc ccaggagccc atctgcagcg atgcagctgg ggctgcagaa 2340
gggaccctgc gtgcagtggc cccaaagatg gcccacacag ggaccacccc ctgggcggcg 2400
ttcaccccat ggagttgggc cccacagcca ctggacagcc ctggcccctg gaccctgaga 2460
actctcatga gcccagcagc caccctgaga agcctctgcc agcagtctcg cctgaccccc 2520
aagcagatca agtccagatg ccaagatcct gcctctggtg agaggtagct cctaaaatga 2580
acagatttaa agacaggtgg ccactgacag ccactccagg aacttgaact gcaggggcag 2640
agccagtgaa tcaccggacc tccagcacct gcaggcagct tggaagtttc ttccccgagt 2700
ggagcttcga cccacccact ccaggaaccc agagccacat tagaagttcc tgagggctgg 2760
agaacactgc tgggcacact ctccagctca ataaaccatc agtcccagaa gcaaaggtca 2820
cacagcccct gacctccctc accagtggag gctgggtagt gctggccatc ccaaaagggc 2880
tctgtcctgg gagtctggtg tgtctcctac atgcaatttc cacggaccca gctctgtgga 2940
gggcatgact gctggccaga agctagtggt cctggggccc tatggttcga ctgagtccac 3000
actcccctgc agcctggctg gcctctgcaa acaaacataa ttttggggac cttccttcct 3060
gtttcttccc accctgtctt ctcccctagg tggttcctga gcccccaccc ccaatcccag 3120
tgctacacct gaggttctgg agctcagaat ctgacagcct ctccccctt ctgtgtgtgt 3180
cgggggaca gagggaacca tttaagaaaa gataccaaag tagaagtcaa aagaaagaca 3240
tgttggctat aggcgtggtg gctcatgcct ataatcccag cactttggga agccggggtg 3300
ggaggatcac cagaggccag caggtccaca ccagcctggg caacacagca agacaccgca 3360
tctacagaaa aattttaaaa ttagctgggc gtggtggtgt gtacctgtag gcctagctgc 3420
tcaggaggct gaagcaggag gatcacttga gcctgagttc aacactgcag tgagctatgg 3480
tggcaccact gcactccagc ctgggtgaca gagcaagacc ctgtctctaa aataaatttt 3540
aaaaagacat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 3600
aaaaaaaaaa aaaaaaaaaa aaaaaa 3626

<210> 2
<211> 227
<212> DNA
<213> Homo sapiens

<400> 2
accgggcacg ggtcggccgc aatccagcct gggcggagcc ggagttgcga gccgctgcct 60
agaggccgag gagctcacag ctatgggctg gaggccccgg agagctcggg ggaccccgtt 120
gctgctgctg ctactactgc tgctgctctg gccagtgcca ggcgccgggg tgcttcaagg 180
acatatccct gggcagccag tcaccccgca ctgggtcctg gatggac 227

<210> 3
<211> 3509
<212> DNA
<213> Homo sapiens

<400> 3
cagctatggg ctggaggccc cggagagctc gggggacccc gttgctgctg ctgctactac 60
tgctgctgct ctggccagtg ccaggcgccg gggtgcttca aggacatatc cctgggcagc 120
cagtcacccc gcactgggtc ctggatggac aaccctggcg caccgtcagc ctggaggagc 180
cggtctcgaa gccagacatg gggctggtgg ccctggaggc tgaaggccag gagctcctgc 240

ttgagctgga gaagaaccac aggctgctgg ccccaggata catagaaacc cactacggcc 300
cagatgggca gccagtggtg ctggccccca accacacgga tcattgccac taccaagggc 360
gagtaagggg cttccccgac tcctgggtag tcctctgcac ctgctctggg atgagtggcc 420
tgatcaccct cagcaggaat gccagctatt atctgcgtcc ctggccaccc cggggctcca 480
aggacttctc aacccacgag atctttcgga tggagcagct gctcacctgg aaaggaacct 540
gtggccacag ggatcctggg aacaaagcgg gcatgaccag ccttcctggt ggtccccaga 600
gcaggggcag gcgagaagcg cgcaggaccc ggaagtacct ggaactgtac attgtggcag 660
accacaccct gttcttgact cggcaccgaa acttgaacca caccaacaag cgtctcctgg 720
aagtcgccaa ctacgtggac cagcttctca ggactctgga cattcaggtg gcgctgaccg 780
gcctggaggt gtggaccgag cgggaccgca gccgcgtcac gcaggacgcc aacgccacgc 840
tctgggcctt cctgcagtgg cgccgggggc tgtgggcgca gcggccccac gactccgcgc 900
agctgctcac gggccgcgcc ttccagggcg ccacagtggg cctggcgccc gtcgagggca 960
tgtgccgcgc cgagagctcg ggaggcgtga gcacggacca ctcggagctc cccatcggcg 1020
ccgcagccac catggcccat gagatcggcc acagcctcgg cctcagccac gaccccgacg 1080
gctgctgcgt ggaggctgcg gccgagtccg gaggctgcgt catggctgcg gccaccgggc 1140
acccgtttcc gcgcgtgttc agcgcctgca gccgccgcca gctgcgcgcc ttcttccgca 1200
agggggggcgg cgcttgcctc tccaatgccc cggaccccgg actcccggtg ccgccggcgc 1260
tctgcgggaa cggcttcgtg gaagcgggcg aggagtgtga ctgcggccct ggccaggagt 1320
gccgcgacct ctgctgcttt gctcacaact gctcgctgcg cccgggggcc cagtgcgccc 1380
acggggactg ctgcgtgcgc tgcctgctga agccggctgg agcgctgtgc cgccaggcca 1440
tgggtgactg tgacctccct gagtttttgca cgggcacctc ctcccactgt cccccagacg 1500
tttacctact ggacggctca ccctgtgcca ggggcagtgg ctactgctgg gatggcgcat 1560
gtcccacgct ggagcagcag tgccagcagc tctgggggcc tggctcccac ccagctcccg 1620
aggcctgttt ccaggtggtg aactctgcgg gagatgctca tggaaactgc ggccaggaca 1680
gcgagggcca cttcctgccc tgtgcaggga gggatgccct gtgtgggaag ctgcagtgcc 1740
agggtggaaa gcccagcctg ctcgcaccgc acatggtgcc agtggactct accgttcacc 1800
tagatggcca ggaagtgact tgtcggggag ccttggcact ccccagtgcc cagctggacc 1860
tgcttggcct gggcctggta gagccaggca cccagtgtgg acctagaatg gtgtgccaga 1920
gcaggcgctg caggaagaat gccttccagg agcttcagcg ctgcctgact gcctgccaca 1980
gccacggggt ttgcaatagc aaccataact gccactgtgc tccaggctgg gctccaccct 2040
tctgtgacaa gccaggcttt ggtggcagca tggacagtgg ccctgtgcag gctgaaaacc 2100
atgacacctt cctgctggcc atgctcctca gcgtcctgct gcctctgctc ccaggggccg 2160
gcctggcctg gtgttgctac cgactcccag gagcccatct gcagcgatgc agctggggct 2220
gcagaaggga ccctgcgtgc agtggcccca aagatggccc acacagggac caccccctgg 2280
gcggcgttca ccccatggag ttgggcccca cagccactgg acagccctgg cccctggacc 2340
ctgagaactc tcatgagccc agcagccacc ctgagaagcc tctgccagca gtctgcctg 2400
acccccaaga tcaagtccag atgccaagat cctgcctctg gtgagaggta gctcctaaaa 2460
tgaacagatt taaagacagg tggccactga cagccactcc aggaacttga actgcagggg 2520
cagagccagt gaatcaccgg acctccagca cctgcaggca gcttggaagt ttcttccccg 2580
agtggagctt cgaccccacc actccaggaa cccagagcca cattagaagt tcctgagggc 2640
tggagaacac tgctgggcac actctcagc tcaataaacc atcagtccca gaagcaaagg 2700
tcacacagcc cctgacctcc ctcaccagtg gaggctgggt agtgctggcc atcccaaaag 2760
ggctctgtcc tgggagtctg gtgtgtctcc tacatgcaat ttccacggac ccagctctgt 2820
ggagggcatg actgctggcc agaagctagt ggtcctgggg ccctatggtt cgactgagtc 2880
cacactcccc tgcagcctgg ctggcctctg caaacaaaca taatttggg gaccttcctt 2940
cctgtttctt ccacccctgt cttctcccct aggtggttcc tgagccccca ccccaatcc 3000
cagtgctaca cctgaggttc tggagctcag aatctgacag cctctccccc attctgtgtg 3060
tgtcgggggg acagagggaa ccatttaaga aaagatacca aagtagaagt caaaagaaag 3120
acatgttggc tataggcgtg gtggctcatg cctataatcc cagcactttg ggaagccggg 3180
gtaggaggat caccagaggc cagcaggtcc acaccagcct gggcaacaca gcaagacacc 3240
gcatctacag aaaaatttta aaattagctg ggcgtggtgg tgtgtacctg taggcctagc 3300
tgctcaggag gctgaagcag gaggatcact tgagcctgag ttcaacactg cagtgagcta 3360
tggtggcacc actgcactcc agcctgggtg acagagcaag accctgtctc taaaataaat 3420
tttaaaaaga catttttttt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 3480
aaaaaaaaaa aaaaaaaaaa aaaaaaaaa 3509

<210> 4

<211> 826
<212> PRT
<213> Homo sapiens

<400> 4
```
Met Gly Trp Arg Pro Arg Arg Ala Arg Gly Thr Pro Leu Leu Leu Leu
  1               5                  10                  15

Leu Leu Leu Leu Leu Leu Trp Pro Val Pro Gly Ala Gly Val Leu Gln
             20                  25                  30

Gly His Ile Pro Gly Gln Pro Val Thr Pro His Trp Val Leu Asp Gly
         35                  40                  45

Gln Pro Trp Arg Thr Val Ser Leu Glu Glu Pro Val Ser Lys Pro Asp
     50                  55                  60

Met Gly Leu Val Ala Leu Glu Ala Glu Gly Gln Glu Leu Leu Leu Glu
 65                  70                  75                  80

Leu Glu Lys Asn His Arg Leu Leu Ala Pro Gly Tyr Ile Glu Thr His
                 85                  90                  95

Tyr Gly Pro Asp Gly Gln Pro Val Val Leu Ala Pro Asn His Thr Val
            100                 105                 110

Arg Cys Phe His Gly Leu Trp Asp Ala Pro Pro Glu Asp His Cys His
        115                 120                 125

Tyr Gln Gly Arg Val Arg Gly Phe Pro Asp Ser Trp Val Val Leu Cys
    130                 135                 140

Thr Cys Ser Gly Met Ser Gly Leu Ile Thr Leu Ser Arg Asn Ala Ser
145                 150                 155                 160

Tyr Tyr Leu Arg Pro Trp Pro Pro Arg Gly Ser Lys Asp Phe Ser Thr
                165                 170                 175

His Glu Ile Phe Arg Met Glu Gln Leu Leu Thr Trp Lys Gly Thr Cys
            180                 185                 190

Gly His Arg Asp Pro Gly Asn Lys Ala Gly Met Thr Ser Leu Pro Gly
        195                 200                 205

Gly Pro Gln Ser Arg Gly Arg Arg Glu Ala Arg Arg Thr Arg Lys Tyr
    210                 215                 220

Leu Glu Leu Tyr Ile Val Ala Asp His Thr Leu Phe Leu Thr Arg His
225                 230                 235                 240

Arg Asn Leu Asn His Thr Lys Gln Arg Leu Leu Glu Val Ala Asn Tyr
                245                 250                 255

Val Asp Gln Leu Leu Arg Thr Leu Asp Ile Gln Val Ala Leu Thr Gly
            260                 265                 270

Leu Glu Val Trp Thr Glu Arg Asp Arg Ser Arg Val Thr Gln Asp Ala
        275                 280                 285
```

```
Asn Ala Thr Leu Trp Ala Phe Leu Gln Trp Arg Arg Gly Leu Trp Ala
    290                 295                 300

Gln Arg Pro His Asp Ser Ala Gln Leu Leu Thr Gly Arg Ala Phe Gln
305                 310                 315                 320

Gly Ala Thr Val Gly Leu Ala Pro Val Glu Gly Met Cys Arg Ala Glu
                325                 330                 335

Ser Ser Gly Gly Val Ser Thr Asp His Ser Glu Leu Pro Ile Gly Ala
            340                 345                 350

Ala Ala Thr Met Ala His Glu Ile Gly His Ser Leu Gly Leu Ser His
        355                 360                 365

Asp Pro Asp Gly Cys Cys Val Glu Ala Ala Ala Glu Ser Gly Gly Cys
    370                 375                 380

Val Met Ala Ala Ala Thr Gly His Pro Phe Pro Arg Val Phe Ser Ala
385                 390                 395                 400

Cys Ser Arg Arg Gln Leu Arg Ala Phe Phe Arg Lys Gly Gly Gly Ala
                405                 410                 415

Cys Leu Ser Asn Ala Pro Asp Pro Gly Leu Pro Val Pro Pro Ala Leu
            420                 425                 430

Cys Gly Asn Gly Phe Val Glu Ala Gly Glu Glu Cys Asp Cys Gly Pro
        435                 440                 445

Gly Gln Glu Cys Arg Asp Leu Cys Cys Phe Ala His Asn Cys Ser Leu
    450                 455                 460

Arg Pro Gly Ala Gln Cys Ala His Gly Asp Cys Cys Val Arg Cys Leu
465                 470                 475                 480

Leu Lys Pro Ala Gly Ala Leu Cys Arg Gln Ala Met Gly Asp Cys Asp
                485                 490                 495

Leu Pro Glu Phe Cys Thr Gly Thr Ser Ser His Cys Pro Pro Asp Val
            500                 505                 510

Tyr Leu Leu Asp Gly Ser Pro Cys Ala Arg Gly Ser Gly Tyr Cys Trp
        515                 520                 525

Asp Gly Ala Cys Pro Thr Leu Glu Gln Gln Cys Gln Gln Leu Trp Gly
    530                 535                 540

Pro Gly Ser His Pro Ala Pro Glu Ala Cys Phe Gln Val Val Asn Ser
545                 550                 555                 560

Ala Gly Asp Ala His Gly Asn Cys Gly Gln Asp Ser Glu Gly His Phe
                565                 570                 575

Leu Pro Cys Ala Gly Arg Asp Ala Leu Cys Gly Lys Leu Gln Cys Gln
            580                 585                 590
```

```
Gly Gly Lys Pro Ser Leu Leu Ala Pro His Met Val Pro Val Asp Ser
        595                 600                 605

Thr Val His Leu Asp Gly Gln Glu Val Thr Cys Arg Gly Ala Leu Ala
    610                 615                 620

Leu Pro Ser Ala Gln Leu Asp Leu Leu Gly Leu Gly Leu Val Glu Pro
625                 630                 635                 640

Gly Thr Gln Cys Gly Pro Arg Met Val Cys Gln Ser Arg Arg Cys Arg
                645                 650                 655

Lys Asn Ala Phe Gln Glu Leu Gln Arg Cys Leu Thr Ala Cys His Ser
            660                 665                 670

His Gly Val Cys Asn Ser Asn His Asn Cys His Cys Ala Pro Gly Trp
        675                 680                 685

Ala Pro Pro Phe Cys Asp Lys Pro Gly Phe Gly Gly Ser Met Asp Ser
    690                 695                 700

Gly Pro Val Gln Ala Glu Asn His Asp Thr Phe Leu Leu Ala Met Leu
705                 710                 715                 720

Leu Ser Val Leu Leu Pro Leu Leu Pro Gly Ala Gly Leu Ala Trp Cys
                725                 730                 735

Cys Tyr Arg Leu Pro Gly Ala His Leu Gln Arg Cys Ser Trp Gly Cys
            740                 745                 750

Arg Arg Asp Pro Ala Cys Ser Gly Pro Lys Asp Gly Pro His Arg Asp
        755                 760                 765

His Pro Leu Gly Gly Val His Pro Met Glu Leu Gly Pro Thr Ala Thr
    770                 775                 780

Gly Gln Pro Trp Pro Leu Asp Pro Glu Asn Ser His Glu Pro Ser Ser
785                 790                 795                 800

His Pro Glu Lys Pro Leu Pro Ala Val Ser Pro Asp Pro Gln Ala Asp
                805                 810                 815

Gln Val Gln Met Pro Arg Ser Cys Leu Trp
            820                 825
```

<210> 5
<211> 207433
<212> DNA
<213> Homo sapiens

<400> 5

```
gctctaataa atttgcggcc gctaatacga ctcactatag ggagaggatc cgcggaattc      60
ccccatgtgc catgtccacg agatggttga acagatgaga caacatggtt gtgcagcttc     120
tctcttttttt ttttttttcag acagagtctc actctgtagc ccaggctgga gtgcagtggc     180
gcaatttcag ctcactgcaa cctccgcctc ccaggtcctg attcaagcag ttctcctgcc     240
tcagcctcct gagtagctgg gattacagga acgcgccact atgcccagct aatttttcta     300
ggtttagtag agacggggtt tcaccatgtt gaccaggctg gtcttgaatt cctgaccttg     360
```

```
tgatccgccc gcctcggcct cccgaagtgc tgagattaca ggcatgagcc accgcatccg     420
gccatgcagc ttctcttttc tagagttaac aggagatgcg gcaggtctgt agtagcccag     480
aaattctcag acttgcactc ttgaatttac acgcatgtac aaaatgcagc tcagcctaat     540
gcctcctgtt cagttctgtg gtgctgccta cttcctgtgc ccaaattagc cttgcgttta     600
taactaggag gaatgacttg gtgtcctaca atattttggc tcctgggctt ctttggtgtt     660
cattctatta ctagttgatt ttttttttct tggaaagaaa agtattcaaa gagccagaat     720
ttactttcat tatatcttac agttgttaaa ttaacctatc cttgttttca ctttctgtgt     780
acttctttct ttggggtaca aaacagtgtt tctttagatt gtctatttct aaatattatt     840
ttaaccagaa cataccaaat atattttcct gccagtttca ttcttcattt tacttcttaa     900
ccattgttac gatttttttt ttaacttcgg tctcagattt tgctcaattg aagttgtccc     960
agttcatgag attttgtttt ctttgcagct cttgaccatg acagatgtga ccagcacaca    1020
gattgttaca gctgcacagc caacaccaat gactgccact ggtgcaatga ccattgtgtc    1080
cccaggaacc acagctgctc agaaggccag gtcagaggct gtttcttaaa gatttcagaa    1140
aaatcccaat ttgtcatagg tttagctttt atagtgtata tggtataaat aatggcccag    1200
agttactttt caaatgggtt tctatttgga ttttattatc cctgaggttt tcctttagga    1260
agagatgttc tgtatatttc aagggtccta ctagccctgg gaatttgtgt attgtgtttt    1320
agaagaaggt aggactgttg tccctgggca tggctgtgac taagcactgg atccttggtt    1380
tgaggcatct gatagtgacc tcactttacc agtaccaggt tttgataaag ttagggtttg    1440
agagtgagtc aggtgtacag cggcccatat tgaactgtgg aaatgacaga ctttgcaaaa    1500
tctccttgtt ttatatcttg gtttggcata atctcactgc tcatcatata tagattttta    1560
aatttaagtt ataagatgac ccaggctttt atagttttttg acagcttaca agacttttct    1620
ttttgtcagt ctcatacagt tcataaaata gaaaactttc agacttttga agtgagcatt    1680
tgaaaagcac caagttcaac attcccattt tacagatgag caggttgagg catggtgttt    1740
aaaagagtgg gctgcttcct tgccagttaa aagcatgtcc ttgagcagaa cattccattg    1800
cagtgttccc cactgcagag ctactgcaac ttatctatct atctgtctgt ctgtctgtct    1860
atctatctat ctatctatct atctatctat ctatctatct gtctatctat ttatttgcag    1920
tttgcttcct caattagatt ttgttgtcta taatatcctg ttggtcctca ccataagttc    1980
tctctgtgga tacaaaagaa aagcttttgt ccactgtgtt ctagatctcc atttttaggt    2040
atgagaattg ccccaaggat aaccccatgt actactgtaa caagaagacc agctgcagga    2100
gctgtgccct ggaccagaac tgccagtggg agccccggaa tcaggagtgc attgccctgc    2160
ccggtaggcc ttgcagggtc atcttggtgt gtgtgggtcc attacttcag cctgcttccc    2220
ccaacactgt gcagcctaag ttgaacctag cagaggggaa gagctaattc tgtccattca    2280
tccccacac gagtattatg ggctttttttg tttttaacta aaatacagtt cttaagtatt    2340
tgttcctact gtcctttgaa ataaagtgaa acatcctttg ctgctctgta gaattgagtg    2400
acagcttggt tctgtatcac tgagcctgct ccttgtctct ttcccatcca cctttgataa    2460
cctgggacta gaccatgatg tctcagcagt cagtctgctg agcacttttat ggagagtact    2520
tcttattaac cactgggatt taattgttgg cacctgctaa tgggccttct ctgagaagga    2580
gaggatagat acttctgtca gcagcacctt ttaggggtga tctccagccc tgaaaacctc    2640
aatatatcct gcttctgagg ttcaggatga tgaactcagg gcctgagacc agccagccat    2700
gtgatatatt tggaccaggg tggtccagaa aggggaactt ccttgtctgt gcacaacatc    2760
tgagcttgtt cagggaagtt ggtttggacc aggccctttt tgaatgtccc ttggaagttt    2820
ttgattcagc ttgcagagtg ggactctttt ctatatctca gtgtgtctca aattttaagg    2880
tacaggaaaa gacctgggaa tcttgcgaaa ggcatattct ggtgcaagtg tggggtgggg    2940
cctagagtgt gcatttatc tagtcgactg ctacactgtg aggagcaagt ctttgtctgt    3000
tcttaaatga tctcttccc atggtaccct tcttttatct cagtgactgt tactgttaat    3060
gaacattgtt gatgtctcca aagtactttg gttctggtga agttgctttg ttctttcatt    3120
gtcttccagg aagcattcat agcttctgtg cagtaccttg tgtgggttca ggatgatcac    3180
aggtagcaga ttacaagctt gtcttgtatg ctatagccat atcacttggg ttgtttctca    3240
agaaggacct tctcaccttg cttttgggat gctttgtaca cttgattgta ccttccacct    3300
gatgatatga aaacagtgca gcttttggag actatagatt tgttaattcc ttgattcatt    3360
tccattcttg cagtttttac cccagccctc caatatgcat attcatttgt ctgctcttca    3420
cttaggattt tagttttcta attgttcttc agaaggaagt gtaccagtct aatattggca    3480
ccaaactggt gttttcatct aagacatagg ataagtgacc tcagaatatg ctcttttagga    3540
tccgggagat atcaccagta aacattttaa aattcttgta ttctgcattt ggtccttaat    3600
aatgtgtcag aggctcccac atcctaatga agtacctaga atttaaatta gaaaggccat    3660
ttcggtattc agtaatttga actcataata cagtagtttt gtctgatttc taaaattctt    3720
ttctttctct tttccccttа atgaaagaaa atatctgtgg cattggctgg catttggttg    3780
gaaactcatg tttgaaaatt actactgcca aggagaatta tgacaatgct aaattgttct    3840
```

```
gtaggaacca caatgccctt ttggcttctc ttacaaccca gaagaaggta gaatttgtcc    3900
ttaagcagct gcgaataatg cagtcatctc agagcatggt gagttaaaat cctcaaaact    3960
taagtttctg gttatccacc tttctaccaa gggcatgact gcagctttgca tgtggaaggc    4020
tgtggatatg tgtaacgtgc ttggcaagaa ggggagtgct ggtgaacgca gcctgaggga    4080
ctgtgggttt gtgctgtcag agtctctttcc tcttaaaatt tttaatactt tgtatatata    4140
agatctatga ataattatat gggggatgaa ttgtaacatg tatatgtgta cataatctgg    4200
tgacatcagt agattatttc atacctgttt tacctctgga ttctgctagg ggagaaagag    4260
aggtcactga taattagcta ggttggatta agccacctga gttccttgga gttaaggtat    4320
tataatagtg cataagactg tataattacc actaagaagt gtacatctca gctggatgtg    4380
gtggctcaca cctgtaatcc cagcactttg ggaggctgag gtgggtggat cgcctgaggt    4440
caggagttca agaccagcct gaccaatata gtaaaacccc gtctctacta aaaatacaaa    4500
aattagccag gcatggtggt gtgcgcctgt aatcccagct actcaggagg ccgaggcagg    4560
agaattgctt gaacccagga ggtggaggtg gcagtgagct gagattgcgc caccgcactc    4620
cagcctgggt gacagagcga tactccgtct caaaacaaaa aaagaacagc aaaaaaaaga    4680
aatgtacatc tccttgggtc tttcatagcc cagccatctc aaaagaagag agcacctttct    4740
tgtcaagagt ttctaagccc agaaaggctc aagtttctctg cttgtccacc cagtgctctc    4800
aggggggctta tagtcaatat tccatgatca catttttgtca tttttagtct ggagtcataa    4860
attgtgatcc taccgtcagt taagtagact catagaacaa agctctttca gcagtttcag    4920
ctgtggtaca gaaacgttta gtggaaatgt tcttaccaag cagggaggag ttgagggcaa    4980
cacttccttg ggtacagcct ccttcatgtg aaggtatgga aatgtggcct gggtctcggc    5040
tgcctgtggc ctctgtgtac cacctatagg gccattctga gactggtagg aggtgccctg    5100
tatttagttt tctccaatta gtccctttttt tcagtgcaac ttagatgggg tatggacact    5160
caaacattgg tgacatattc ttagtgtgtt tacctcaggc tactgtgacc acatttggta    5220
tttcataata ttttgatagc tttttcagat ttcagaatct ccattggtga ctgtctctgt    5280
tgtttctctt tccatgtcca aatgtgggtc tcttccagca ttccatcctt ggctggcagc    5340
tgacctttcc catagttatt cactccctca gaaaatggat ggcacccagc tttgcttatt    5400
accctggtgt ctctaacaat gactctcgag tccacggaag ttaaaagggt tcaaccaggt    5460
ggccacagat atacttctgg taccctttct ctcttcctta ggttttctaa ctctaaacgt    5520
ttctgggtat tctaatctgc tgtggccacg tttatgaaac agaaattcac agtcttaatg    5580
ataagactga cagatgagag acaactgaag tgtaatgtcc ttccacagct atacctctag    5640
atgtagccca gttagtagag cccagatttt tatggaaaaa caagaaagga cacctagcct    5700
aacccttagg acagaggctg gctggtagaa agctggaagg aggtgacccc tgcaggtgag    5760
aaggagtgaa ttaggatgtc gaagacggaa gggcctttctg tgatttaatt agtgccccca    5820
tctgtgagat gtagagggag atgattaagg gagtggctct ttgagtgagc tgcaggtaag    5880
tttgcatggt tggctgcagg ctggatggga ggggatttttt atagttgagc ctcaggaagg    5940
aaccaaggcc agaccctgcg aggccatggc tacaatagta atggatttga attgtatcgt    6000
gaaggcaaag aaattattga agggccttta aaaagtattt ttaattgtct ttctttcttt    6060
tggatctgtt tatttttagg tcttttagta ggcatgtgta ttttttcctc tcaaaaatgg    6120
aaataggctg ggtgtggtgg ctcctgcctg taatcccagc attttgggag gccagtgagg    6180
gaggattgct tgagcccagg agttcaagac tagcctgggc aacacaggga gacctcgtct    6240
ctacaaagga agttttttta aagaattagc cgggcatgat ggtggcacat acttgtagtt    6300
ccggctactt gggaggctga ggcaagaggg ttgcttgagc ccaggggttt gaggctgtag    6360
tgagccatga tcatgtccct gcactccagc atgggcaaca gagcgagacc ctgtctcaaa    6420
agaaagcaaa gggagggaaa tacagtatat cttttgtttt ataactacca aaattaggaa    6480
tacttaccat ttcttggcta aactttatat tttgatttct aaaacttgtt aaaaattgca    6540
atgagaagga aatttcagga gagcagaaga cagactgtcc caggtgtcac tgtcctatta    6600
ttccctataa aatccagtgc caggatggat gaatggataa agcaaatgtg gtataagttg    6660
aatatccctt atctaaaatg ctttggacga ggagtgtttc gaattttaga atatttgcat    6720
tatactaacc agttaagcat ccctaatctg gaaatccaaa atgctctagt gaacattttc    6780
cttcagcatc catcatgttg gcactcaaaa agttttagat tttggagtgt tttggatttc    6840
agattaggga tactcagcct gtgtttgggg gtagccatct cttcatatag acatttcaga    6900
acttaaatat tgctttgcta taatttctgt gaatttttga tatattatct tctctgagct    6960
acatttttat cctttataaa atggccatat tgaagtgatg atctatccta atctaccatg    7020
gctgagtcaa gggataaaga ggttttcctg tgtctgtggg gtatacttaa cttggtggtt    7080
tttatctaga agcttgtttt ggtcaagatg ttggttatat tcaggccagg catggtggct    7140
catgcctata atctcaacat tttgggaggc caaggtggga ggatcacttg agctcaggag    7200
tttgaaacta gccagggcaa catggcaaga ctccatctcc aaaatttaaa ttaaaaaaag    7260
atactatctg tattcatagt tgtgtctctt ttgcctttag tccaagctca ccttaacccc    7320
```

```
atgggtcggc cttcggaaga tcaatgtgtc ctactggtgc tgggaagata tgtccccatt    7380
tacaaatagt ttactacagt ggatgccgtc tgagcccagt gatgctggat tctgtggaat    7440
tttatcagaa cccagtactc ggggactgaa ggctgcaacc tgcatcaacc cactcaatgg    7500
tagtgtctgt gaaaggcctg gtaagttcac aggtgaatta ggtggtattc agagtttatt    7560
gtgagagaaa ccataggagg catagttcat tgctgagatg tgtgaagtag tcatgaaaac    7620
agatgaagta ttgatttcaa gcatgcaaag aagagtataa cccagatttc agaagcagaa    7680
ggaaatattc tgggaccctg aatagtttta attataagca aaactaaaaa taactaacac    7740
tactcgaaga aactgatatt ctaattaaca atgagattga taggtttatt gaccagaaaa    7800
agtattgaga attgctctga aaagcaaatt tattggtgtt ggcagagaaa tgctgtggaa    7860
gaagaaacaa aaaaggaaaa taaaaccaaa gaaaagatta gtaaagcaag caagtgactg    7920
cagggacagt gttcagaaag gtagtgtcaa cagggagaaa aatgatgaga gcagttctgt    7980
aagcgaggac agaagcaacc cagaactacg cgagagctgc aggagagtac tgagcagaca    8040
gacactcgga gtagcttccc agctttcagt ctctctgggc tacattttgg ctaactaaag    8100
gcaggcccag gggtagctgc tgcagcatga agacaactca aaataagcct cctcctcctg    8160
cagagggact cacaagcagt cggtggaatt gtgggttatt ttgggaggct ggactccatt    8220
tgcattgtgt ccaatttgg gaaagtaatt tgtctgagga attacagagg tataggagag    8280
aattcatagc attgtagatt tctaaatatt gatttctaaa cttctctagg ggagctgccc    8340
agcagccttt cagaattctg aatcctttgt tgaacttaat gaatgccgta gaccttcttc    8400
cctccaaaat tgcaaacatg agattttaca tattcaagtg gattgtaaaa cccctaaagt    8460
tcatcctggg tccccaaatt ctaaggggct tacagcccta cttttatgga aagattcact    8520
gtttcctcat ctttgtcctt aatgctcttt gaaaagaaaa tttatttttt ccacaagtgt    8580
gtaaatacac ttgactaaac agtacttgat gacttttatt gttttctatt ttctctcatt    8640
taattgattt catggcacat taatgggtca tcacccacat ttgaaaagtc ttggctgggc    8700
acagtggctc acgcctgtaa tcccagcact ttaggaggcc aagacgggtg gatcacaagg    8760
tcaagatatc aagaccatcc tggctaacat agtgaaaccc catctctact aaaaatacaa    8820
aaaattagcc agacgtgatg gcgcaccccc gtagtcccag ctacttggga ggctgaggca    8880
ggagaatcac ttgaaccggg gaggcggagg ttgcagtgag ccgaaattgt gccactgcac    8940
tctagcctgg agacagagtg agactccgtc tcaaaaaaaa aaaagaaaag aaagaaagaa    9000
aagtctttga ccttagcgga catggtggga gctctaagtg tctctcttgg gtttcattcc    9060
cagcaaacca cagtgctaag cagtgccgga caccatgtgc cttgaggaca gcatgtggag    9120
attgcaccag cggcagctct gagtgcatgt ggtgcagcaa catgaagcag tgtgtggact    9180
ccaatgccta cgtggcctcc ttcccttttg gccagtgtat ggaatggtat acgatgagca    9240
cctgcccccg taagtgaaaa agggagccct aggcacttat gcatgccctc tgtataggca    9300
acaactcagc catgaggctg tgctgtcagc ctctgaacat tttagaaaca agactggaca    9360
tgacctctgc tcaaacctga ccagagactg ccatcgagac cttgctgcct attgagaacc    9420
ttcatacaga atcaggcaca ttgacagtaa ataaatgtaa gatagatcac agagtacaga    9480
aataacttgt ccaacttcag tgtcatattg ctcaatccat gtaatatctc catatctgaa    9540
tttcctaatt tgtaaagtaa atgctttcca atagataatc tctaaggtcc cttttgcctt    9600
caacatcctg ggattgagag aggagggaag ggtcatctct gttatgtatt gggcaaaata    9660
ctgggctctt tacattcatt atctctttta aataatcaag acagaataat atttttgact    9720
caagccagtt gaatagtctg ttaaaaaaaa agtaaataca gtgaattcag atctacctgt    9780
gatagtcaat tgcaactttt ttttttaat agctgaaaat tgttcaggct actgtacctg    9840
tagtcattgc ttggagcaac caggctgtgg ctggtgtact gatcccagca atactggcaa    9900
agggaaatgc atagagggtt cctataaagg accagtgaag atgccttcgc aagcccctac    9960
aggaaatttc tatccacagc ccctgctcaa ttccagcatg tgtctagagg acagcagata   10020
caactggtct ttcattcact gtccaggtaa gatgccttgc atatccaaat tcaagtgttt   10080
cactactgat ttatgaagaa taaaaccttg aaagctacgt tgtgtatatg taactccctg   10140
ccctcagccc ctttccttcc tcctaatggt tggtacaaga aggaatagac cagaagctgg   10200
tccaaggcct gacctggacc tgctgagagt ggtggtgggt tcctaagaaa ccaattctaa   10260
gaaattggcc tttgattcag acttgaagtg accactcagc aatgtgtctg tgggtttcta   10320
gaacagttgg gagaggctgg gctggtgcaa agactcctca gagattagca gtcaagaact   10380
tctctaagag cctgccattg acaacagggc tgtttgtgag gactttgtaa gggaaagtcc   10440
actgtaaaca aagctaaaag ggcagagaca gactgggaga aaatacctgc actgcatgta   10500
acaactgatg atcatccaga atatgtaaac tcccaccctc cagggaaaaa ataagaagct   10560
aaatgtgaac ccaacagaaa aagtggttat tggagataaa gaagccattc tcagaaaagg   10620
aaatagaaca ggaaaatgta aactaacacc aggaaccaat tttttgtcta ctaaactgga   10680
tcaaattttc cgtgttccct tttttccata ctaagatatg ggggacctgc aattctattt   10740
ttaatctgct aggagttaac tttttaacga aatatttaaa tctctgcttt ttcatgaata   10800
```

tcacgaatat atctggtaaa atgacaaccc agagaatggg agaaaatatt tgcaaagtat 10860
atatctaata agaatccaat gtccagaaca cgtaactctt aaaactcaac aatagaaaga 10920
caacccaatt aagaaatgga taaaggattt aaatagacat atgtccagag aagaaataca 10980
aatggccaat aagcacatga aaagatactc aatatcattc atcattacca agaaatgcaa 11040
gtcaaagcca caatgagata ccacctttaca cccactgaga tggctgtaat caataaaaca 11100
ggtaataaca agtattggaa ggatatgtag aaattggaac tctcatgcag gttggcaggt 11160
cctcaaaaag ttaaatatag agttatcata cggccccagca gttttactcc taggtacata 11220
cccaagaaaa ttgaaaacat atgttaccca aaaacttgta tataaatgct tatgcttata 11280
gcatcattct tcatagcatc atgctcaaag caacattatt catcataagc aaaagtgaaa 11340
acaagccaaa tacctgttag ctggcaaatg gatgaacaaa gtgttgtata ttcatacagt 11400
gtaatgttat ttggcaataa aaaggaatga agtactgaca tattttctga catggattac 11460
cctaaaaaaa catgctatgt aaaagaagcc aggtgcaaaa gattatgcgt tgcatgatgc 11520
catttatatg aaatgtccaa agacagaaag tagatgttta gtggtttcct agggctgggc 11580
atggtaatga agaataatag gcatgaggtt ttctagagta gctgcagcat tattttctga 11640
catggattac cctaaaaaaa atgctatgtg aaagaagcca ggtacaaaag attatgcatt 11700
gcatgatgcc atttatatga aatgtccaaa ggcagaaagt agatgtttag tggtttccta 11760
gggctgggga tggaaacaag gaataatagg catgaggttt tctagagtag ctgcagtatt 11820
attttctgac atgaattacc ctaaaaaaac atgctatgta aaagaagcca ggtacaaaag 11880
attatgcatt gcatgatgcc atttatatga aatgtccaaa ggcagaaagt agatgtttag 11940
tggtttccta gggctgggga tggaaacaag gaataatagg catgagattt tgtagagtag 12000
ctgcaccatt ttatgctctc accaacatca tatgaaggtt catatctttc cacatccttg 12060
ccaatacttg ttactatctt tttaatgaaa actgttctag tggatgagaa atggcatctc 12120
actgttgttt tcatttgtat tttcctgata actaatgaaa ttgaacatca acttcattag 12180
ttagcctttt gtatatcttc tttggagaaa tatttagtca aattctttgc ccatttttca 12240
gttatgttgt ctttttatt attgagttgt aagagttcct tatgaattct gaagtcccct 12300
attggatata ttatttgcaa atactttctc ccattatatg ggtttctttt cactttctta 12360
atatgccttt tgaaatcaaa agttttcagt tttgattaag ttccatgtat cagtgttttа 12420
ttttatccca tgtgcttttt ggtattgtat ctagaaaatc agtgcccaag taacccagga 12480
tcacatagat ttgcttcctaa gttttctttg aaaagtttca tagatttgtg tgttacatta 12540
ggtccttgat ccattttgag ttaattttтg tgtatggtgt gaggtagggg tccaaactct 12600
ctttttgcct gtggatgtgg tcctgcacca tttgttgaaa agatttttтt ttttttttaa 12660
ccattgaatt ttcatggcac atttgttgca gatcagttga ctgtgaatct aggaactttt 12720
ttctaagctc tcatttttgt gcagttgacc aatgtttctc cttttgccaa tattacactg 12780
ttttgattac tgtggctttg tataagtttt aaaattggga aggctaagtc ctccaccttt 12840
gttcttattt tgcaagactg ttacagctat tctgggtttc ttgcatgttc atattaattt 12900
taggatgagc ttgccatttt ctgcaacaac aaaaagccaa ctggtttgat aaggtttgca 12960
ttgaatctac tgaccaattt ggggtgtatt gcctgtttgt ttgtttgttt gtttgtttgt 13020
ttgtttgttg agagagggtc tcactctgtc acccaggctg gagcgcagtg gtgctatctt 13080
ggctcactgc agcctccgct ttcccaggct caagtgattc tccagcctca gcctctcgag 13140
taactggtac tacaggcatg agctaccaac acccagctaa tttttatatt tttttagaga 13200
cagggtttcg ccatgttgcc caggctggtc ttgaactcct gagctcaaag caatccctct 13260
ggcctttgcc tccctagttc tgggattaca ggtgtgagcc accacgcctg ggccccttgc 13320
cattttaaca agggttaatc ttctagcctg tgaacctgga atgtcaattt attaccctct 13380
ttacttttctt ttggcattgt tttatagttt tcagtgtaca tcattgtctt gttccttttt 13440
ttaggggaaa ataattcagt ctttattaaa tatgatattt gtttagtttt ttttatacat 13500
gccctttatt gggttgagaa agtttccttc tattctagtt ttttgagggt tttgtaatga 13560
atgagtgcta gattttgtca aacacttttt ctgtgtctac ttagatgatc acgaagtttt 13620
gttctttatt aatactatgt attacattaa ttaagaatgt taaaccagtt ttgcattcct 13680
gggataaagc ccatttagtc atgatgtata ctttttatac atgatgtata ttttaatct 13740
gctgttggat tctatttgct agttggggat tttgtgtgta cattcatgag ggggatataa 13800
gtttgtggtt ttcttctttt gtgattacta tctggttttc atagcagggt agtactggcc 13860
tcctagagta agttggaacg tattcctcct cctctattta ctggaagagt tcgtcaagga 13920
ttagcattaa ttcttcttta gatgttgatt gaattcacca gtgaaaccaa atgggcctgg 13980
ccttttttct tacaggaaaa tttttaatta ttaattcaat ctgtttgtta tagatctatt 14040
cagattttct ttttctgagt gagtcagttt tggtaatctg tttttctagg aatttgtcta 14100
ttctcagtaa tcaaatttgt taacatacag ttcgtagtat tttctttgt tttttttttt 14160
ttttttttga gacagagtct cactctttca cccagtctgg agtgcagtga cgtgatctct 14220
gcttactgca acctccgcct ccagggttca agtgattctc ctgcctcagc cccccaagta 14280

gctgggacta caggcgcacg ccaccactcc tagctaattt tttatttgt tttgttttgc 14340
ttttttagt agagacaggg ttttaccatg tagaccagga tggtctcgat ctcctgacct 14400
cgtgatctgc ctgccttggc ctcccaaagt gctgggatta caggcgtgag ccaccacgcc 14460
cggccagttc atagtatttt cttgcaggtt gctcttagc aatatgtagt ctcctgttta 14520
acctgttaac gatttttttt tctgtctaat ttggttttat tattctttta cattttgcaa 14580
gggctctaaa tattgtgagg gttttttttt ttaagagctt gctctcttat attgtggatg 14640
caataattta agcctattg aatgtactaa aattcgtatt tttcattctc tcatatttct 14700
tgcattaacc cttccttcag gatttgttgc tgtgcgtgtt tatcctggtg gtattcggag 14760
attgagagtt ttcttatact ggttaatcct caaggttaat ttgtattaat aactaaatgt 14820
gtagatctgt caatattggt cagtggttgg gtgtgctgag ctgttgtgaa agtgtggtat 14880
gatgtcctgg aaaagctagc aagccagcct caggacactc cagctctggt ccacttcgac 14940
tgttgttgac tggtgtgcgc atctccctca ttggaagaag gaaggagcaa tggacctggg 15000
tggctgggtg caattagcat gttcatgggt gtggcaagtg cctcccagcc ttgggtggta 15060
gggccacca aagatagctg gcacattgcc ttgagttttc tttcattctt gcttgcttgc 15120
ttgcttttat ttttgagatg gagtttcact cttgttgccc aggctggagt gcaatggtgc 15180
tttcttggct cactgcaacc tctgcctccc gggttcaagc ggttctcctg cctcagcctc 15240
ccaagtagct gggattacag gcacctgcca ccacctctgg ctaatttttt gtatttttag 15300
tagagacagg gtttcactgt gttggccagg ctgatctcga actcctgacc tcaggtgatc 15360
cacctacctt ggcctcccaa agtgatggga ttacaggcat gagccaccac acccagctga 15420
gttttctttc aaacactcaa atactaacag gtgcataaac agaacaagta caaggctatg 15480
gaaggttgcc aagatggtga aaaactgcat cacactgatc aaccaaggca gatctgaaga 15540
atcagatttt gcttacagtg caggttgtgc actatgtaaa tgtttccccc atcctattcc 15600
cccctagagt tctgcagtgc acagcctgtg cagctgtcct gagcagtcct cagaggtcca 15660
agcttcatat acctttctag ttgtaaagcc ctatatccat taggagtctt agtaatccca 15720
cttgtggaaa tgtttatccg taaagatggt tatttttcta ataatgaaaa atgtaaagca 15780
aactaaatat tagaatataa gggaatggtt aaataactgt taagattcat caaaatcatt 15840
ctaccatttg aagttttgtt tataattgat gaaatagggt ggtaaaatag ttgtgatcta 15900
agttaagaaa ggtgaatatt aatatgaaca taattgtgca aattatgttc ttctggtata 15960
gaaaaatacc agaagaaaat atatcaaatg tgaacagtgg tctctgagtg gttggattgt 16020
atatgatctt tccccatcct tctatttttt aagtatactg tcatgagcat acgttatttt 16080
ttagtgaata acaacaaaaa atatttttta atatcactat gggctttcac cttgctgtga 16140
tacatttttca attttcctgg actagctctt ctttgatatt ttttatctta tttctcaaat 16200
tagtttttag tgggccagtt ttggtgattt atcaaagata aattaactac agagatagtt 16260
gcagataaat cttattgaac ttaactacat gcagttcttc catggtacag acccctgaa 16320
actcttttttc ttgcagcttg ccaatgcaac ggccacagta aatgcatcaa tcagagcatc 16380
tgtgagaagt gtgagaacct gaccacaggc aagcactgcg agacctgcat atctggcttc 16440
tacggtgatc ccaccaatgg agggaaatgt cagcgtaagt caaattggtc aggtttactc 16500
atggcaaatc ggtgtggaac acagcacttc tatttgactt gaatatctag gaggaaaaaa 16560
gccactttgt tttggatacc acatttctta ttaaatcata ctggtcagaa gctcagctga 16620
gctggaagaa agaaccaagg tttcagtgta gctggttaaa gcaacaagcc aaaaatgtta 16680
gagtcaagcc tttgaccaca ttctgcagtg gtataagcaa gggcccaaaa ccagagaaag 16740
tgccaacttc ccctgtttcc tttcctccca ttgaacaggg cacaggtcaa tagtcagagg 16800
gatcagctca gacatgggag tcttggggct catctcactg aggcccggac aaaaggttcc 16860
agcagtatat ggacactaag gttgtgggaa gggcaaggtg taagggctag gactgggaaa 16920
gtcctgggtt ggagtcagag ttaggaaagt gtcttctgaa ttccccctcc tcccccatc 16980
aggaggcctt ggtgcctgaa gaagacctca gcccaaggcc tcagataggg agcctgggaa 17040
taaaggctcc agggctagga atgtgaacat gtgaaggagc gtgacccgtg aggtagacct 17100
gagtccttaa ctgcacctct ctcagagccc cacacttagg cccacctcac aggtcatgct 17160
ctgccaggta aagcctgtgg cattgcctgt ggtcaggccc tgaaaaatca cacacgggct 17220
ttttaaccag gagccagact cctcaatact tatagtgtat tttaaaggtt taaatagtcc 17280
cgtgttggct gggtgtagtg gctcacgcct gtaatcccag cactttggga gggccaaggc 17340
aggtggatca cttgaggtta aggagtttga gaccagcctg accaacatgg tgaaacccca 17400
tctctactaa aaatagaaaa attagctggg catggtggcg ggggcctgta atccaagcca 17460
ctcaggaggc tgaggcatga gaattgcttg aacctgggag gcggaggttg cagtgagcta 17520
agatcacgcc actgcactcc agcctgggca acagagtgag actcagtctc aaaaaaaaaa 17580
aaaaagaaaa aaaaaaaagt cctgtgtttc cccatttatg tcaaatagaa gcctgcaagc 17640
aataggacat tttattatga gaacaaaaat tatgacaagt gatattaatg aactgctttt 17700
tttattctag tttccagcca aaaaacataa tgagtactat agtcgaaaga cttttcaaag 17760

ttctgagcag gaaaagtaaa caacataggg aaatctctac ctactcccca gatcccaact 17820
ccaaactctt tggcatggcc cttcagaatc tgatctgatc caagaccagc caggagagag 17880
gcagcgttct agctgtgtgt cccttactct ccctgggggtt cagtttcctc ctaataatag 17940
ggtggttgtt aagatgaaag cagagcagca catgacacat gttccacagg atactagtca 18000
atacttagta gatgtgggca attcttatta cccttctaat gccattctcc actactccta 18060
agtaaaagtt cttgctcaga ttaaaaggta tttggtgaaa atgttttccc cactctttgt 18120
gaatagactt aatccgttag acagtaacca gagtacctaa cagagtggtg gagtgtacaa 18180
ggcattgtgc tgttacccac tcaagacaca ggtgctttta ttatccccaa gatcaagtaa 18240
actgcccagg gtctcacagt gagatgtggc caagctaaga accacgccca gtctgtgctg 18300
accttaatta cttggctggt tgtgcttcca gatgccatca tacccacatc agcagctgct 18360
atctagaagc atcacatttt cctctgtgag atctacaggg cctgagtaca atttgcctta 18420
tttttcagag tcctaatcca cggtagaaag cgtggtgttt atagaatact gcagatggca 18480
ccaagtcttt gatgttttct tcttaaaatt gtatagtcct taggtaacga tagtagccat 18540
gatttcttga atgcttactg tgtttgagac atcatataca tatcatcaca aacacccctа 18600
tgagataggt actgttgtta tccccatcat atggacaagg aagctgaaac tcagaaaggt 18660
taagtagcat tcccagagtg acagaagagc caagtagagg acgctgaatt caaacccagg 18720
cagatggacg taaggccttt gcttttcact atacattaca caccttcccc cagtctcaac 18780
agagccaagt gtcagacact catgattctg acttcagcat ccatttctgtt aatctctgca 18840
ctattctgtt ttatagtttt ctttgggtga ttccaaagga tttattttta aagcatacct 18900
ctctccagct gaatgccttt catttattca ccagcaaaac agggtataaa gtgaaaaggt 18960
gttgaccaaa aaggctttca ctttttcaa ctggagtata atatttatca cggcttgtat 19020
tacgttggat gataaaagga gagatgttga gttggccaga tgagggagat gggaagagct 19080
attttctgta aaggcaaagg aaaaggtgaa gcaagggtgg catgtcctga gggcccctaa 19140
agcgctgacc ttggcattgg atcctggttc tgagccctgc ggtgattcca aatgtgacca 19200
tcgtggagaa ggcacctcag ccaagaccag ccctccttca gaggacagtc acctccagag 19260
cacctcccta ggggcagcag ctatgtctgt gtccccacac ccagcacctg gcattctaga 19320
gatgcttcac aaatatttat tgaatgaatc aaagaatcat agcagtgaaa aagagagtct 19380
attgaaaaga tcaaaatagt cattgcttca gaaggcagtg ggtaccagca ttcactttcc 19440
tcctgtcctt tgtttggttc ctttaatgtt acctatacat tattatcatt agctgaaaaa 19500
tcatgaatct tacccattga atgctcgtac tttaatctgt ctttcctact gaactcaatt 19560
cagataaaat tgcttgtttt ggaaaaagtc tccaatagtc agaatttttt aagccagttg 19620
tgacctctgt tccttttct tctctgcagc atgcaagtgc aatgggcacg cgttctctgtg 19680
caacaccaac acgggcaagt gcttctgcac caccaagggc gtcaaggggg acgagtgcca 19740
gctgtgagta ccatactccc tggaccacca gggaggacca agaggctgtg cagctgcctg 19800
aaccccaccc tgagagccac ccacttccct gtgtcttgtt gctgtgggct ctgagggatc 19860
cctgggttga ttagtttgaa attttgccca ttctatttca gacaggtcag tccccaaaat 19920
gaggaggtcg tcgagttagc agcaattcct taatggctct tgaattcaca tttttgtttа 19980
aatgatactg acatttcctg ggttgtccat ttggagtagt cattttaact tcagcaacta 20040
cttgattttt gtcatgtcaa gagattatac tctttcccaa agagtagaga tggaagagct 20100
ggtgttttgg tgatggcatt tatttggcgt ttggttgtct gattgtggaa atgatcctct 20160
taccttaac atttcccatt actctagcat tttccttgtt gaagcatgtc aggcatcttc 20220
ctggagaggg tttgaagtcc ccatccatga ggatgcaggt gcagcagcat caggcatgtt 20280
taaggttca gacctggccc tgcctccact gagcaaggtg ctcttgaggc aaatcactgt 20340
tccccccatc tgtcagtagt gggactagca gtaattgttt ttggtgtcct ggtaggttga 20400
aacaggaagg atagttcctc aatcaatgta taccgggctg tctcactggg aaacctcata 20460
aaatgcatgt atccgcattt actcattctc aagaaaaaac ttaaaaagtg tttagtgtca 20520
aaacactgag ctgattaatc attgtaaaca tcattatttc ttaaataaca gtagtaataa 20580
tgccaccagt gattgagaca tcattgctgg tgctactcag cagggtttgg tctgtctact 20640
ttttagttta tatctgcata tatgtttact agcttcatgt tgccctaaag ccaatatgtg 20700
aagaaaagtc taatccaagg ttaaatttaa cttttaggtc cacattccct taaacagaaa 20760
aatgtcatcg agcaaaatta atcactctta ccctcagtta gctgatgcaa caaagacatg 20820
aggtggcatc aagtaagact ttcaagttcc ttcgagatcg cagatgtagg caggtgctgc 20880
tcatcaccct ggctaaaggg acacagcata cctgcctggg aaaggccatt acccacttcc 20940
cgcccttcc tcttcatgca tagctgttgt gtttacctaa atgcttcatg aagtgggagg 21000
ctgggttttg ctgatgttta tagatgatct gtatggggaa attgttttct gagtagaaca 21060
tatttttttt ctacagactg gtgaacactt gttccagggt ttaaaaaaac agtgattctt 21120
ggtatttagt cttctctcac ttgtgtttaa agaagagaat tagtttatcc agggaacata 21180
ggaaagaagt gagaaattag tatttgaaaa atgttttgac tgcactttta gaagaatatg 21240

tagtccacac aaaattgaaa atgtttttca ttatagtaaa taggtttatt acatttggat 21300
ttctctcatt gctttggcaa atgcttgtca attgtcctca tatagttggt gtgtgaactg 21360
ctgagcagtc agtattgaag cgttcatgca tgctcttcct agactgcctg agctgagtta 21420
tggtgaagga tgcaattata atggctccag actatctgta ctttatataa aaggatctgt 21480
ttggtttaa aatgaattca gtttctgttt taaatagcag tataaaatag tcttttttcc 21540
cccccagatg tgaggtagaa aatcgatacc aaggaaaccc tctcagagga acatgttatt 21600
gtaagtggtt ttgcaatttct tatttctaga agcaaagtag ttcagtaaaa cttcattgtt 21660
taaacgggtt tgagaatagt aagtgctata agactatagc agccaccaat gaagtgttcc 21720
cagacttgat atgtttacat tctgttaagt ttactacata taggagcact gttttaagct 21780
gttttaattg tgtttggggt taacgttaat gtgtccatag cagatagcag gagagagtag 21840
agaggcatgc atcttttgtct atccacattt atgttctctt aaaactttac tttatttgcc 21900
attacctagt tggggtcatc atatttcgtg ttttaggatg tagatcaaaa acagaattct 21960
tacaatatgg ttgaactttt tgtcattctg tctggaactg atttgtgtta accaccttga 22020
ggtgaaaggt gagtctgaca aggtgaccat gtttttatgg gtaaatgtgt tttctcttta 22080
tgggagaatc cacatggtag accagagtac gggaccagaa aaaaggagtt aatgttatgg 22140
catatccatt gtaattatat acctgctgta ctgggttgaa taacatccct tcaaaattca 22200
tgtccacttg gaacctgtga atatgacttc atatatatat atataaaact tctaaaagaa 22260
aacaagagaa aaacatcttg accttgggtg gggaaaagtt gttagatagg attctaaaag 22320
cataattcat aaataaaaag tagactaatg aaactatata aaaatttaaa acttgtagga 22380
aaaaaccatc caaaacataa aaagccacag actagagaaa atactcgcac atcatcatat 22440
atttgataag gagtttatat ccagaataca tgaggaactc ttacaactga ataagatgac 22500
aattccagtt aaaaacaggc aaagatttga aaagacattt catgaaagaa gatattacag 22560
tggccaataa gcacatttaaa aacgacttaa catcattcgt tatttggaat ggagatttta 22620
aaaccacagt cagatacagc cctaaagtga ttagaatcca acgctaatgc catggctttt 22680
tagaagacag tggtaatctc atgtctgctt ctgcattcag tctgttgcag tacatctttt 22740
tggttaaaca catgaaaaaa acctggcctt accaggcatg cagttggaaa agggtatagt 22800
gataccctt taatagcctt ttcagataat tatggacgtt acttgatatt atgctgaaac 22860
tggacaactg gtcatttctt taaagcggtt tgatgggtta acccaaataa aatgatactg 22920
cccacagact tgattttctt tgaggaacct gggtacagct gagttaaagt gctttcctcg 22980
ttacttaatt tataagaaaa gcagcctgta tctctaaaga cctgttctat tttgtgtgtg 23040
tttagttttt aaatatgcat ttctttcttt ccatagatac tcttcttatt gactatcagt 23100
tcaccttttag tctatcccag gaagatgatc gctattacac agctatcaat tttgtggcta 23160
ctcctgacga agtaagattt tttaaagtct tcctattttg ttttgaattt gtatggatct 23220
ttttcttggt cattacggat ggacgtactg ccttaacagt gctctccaga ctggagtaca 23280
cgagatgatc tctagaggta taggaaagaa atgttagact ctacgttatc tcctttccac 23340
ataaaaggca aaagtgatgt taataagatt taccaggatc ttagacacag actgacattg 23400
attccacgca tacttactct gcctgtcagc ccatcatggc ctcatacaga aaggggactc 23460
caccatcaga gggcagatag cagagcctgg gtttactctc tcaagagtga ccagaggctt 23520
aaagacactg ctgattgaaa tgccagtgat gcagccccaa tcagacagca agggagggga 23580
ccccaatcag acagcaaggg aggggacccc aatcagacag caagggaggg gacactctgc 23640
tcctagagtg agttcttagc ctcattagga ggcaaaacag caaaggctta gttgggtcca 23700
ttaagaagtt agccaggaat aatttaaatt gttaaaatat gtatgtaaaa tgtggatttt 23760
tttatctgct gtcattaacg atgaagccca acctgcctta aggtattacc tagtggtaga 23820
aggaaggcca cactgcggga catttaaaac tgaaacatac agaacacgaa gatgcacctg 23880
tacagtttct tcaatgaaat ataaagtcat gcagtaccca cttcagtatt taaagaaatt 23940
ttggtaaaca taatggtaaa ttatttagga acttccttgg agatttctta cttctcatga 24000
acatacacaa agccatttac cattacaaaa ttccattaac aataaatgtg acaaataata 24060
catggaaaac aatatggcag taagacaaag tatattgctt tgttaacaaa tgttatctat 24120
aaacattgct aaatttaatt ttaaaagtag aacaaagtct atagtgtggt atgtttacta 24180
tacaagtaaa tgaaaatagg atttgttttt aatattctat ttcaaagata aaattaagaa 24240
aaaatgtact agaaaagata cattctcaaa agtaaattgc tttttaagta aaaataataa 24300
attacttttaa atgaattatt ttatggaaaa actataggta ttaatatatc atttgagtgg 24360
ctgtattgac tggaattttt ttcttaacga ttttagaata agattttaac aaaagtacca 24420
tatatgaaat gtattcactg cctcataagc aagcgtttga agtgctcaaa atctttcagg 24480
atatacttca tgccattaat gtcattaaaa aaataaatat agtagaatct ttgtaatact 24540
tcttaaccag gtgggaagca accatgaaag tatttggacc tttctggatt tcccagttta 24600
tcttacgaca gaatacttac tagagttatc caaatgcata tgttctgtcc tctataaaag 24660
cacaagcatt ttaagtttat tgattctttc tgtggaaaga catatagttg acccttgagc 24720

aatacaggtt aaaactgtga ggatccactt acacgtagac ttttttcaac caagcgtgga 24780
atgaaaatac agtatttgca agatgtgaaa cctgagtata cagagggtgg acttttcata 24840
tgcaagggtt ctatgggcag actgcggact ggagtatgtg tggatttggg catgctcagg 24900
gggtcctgga accgatgacc cacgtatacc aaaggatgac tgtaattgtt agttgtgtgc 24960
tgccagcaaa tactaaatac aaataagtaa acacttgagc tgtcctttca agatgaaggt 25020
gaggtcttat cagtaaatga gaaggtaaat gctttgtgag agaaacttct ggtttaatga 25080
tcacatttta aaaatagctg tttggaaatg tttccattgt tgtgatttg tgctattaaa 25140
atgatcaaaa caacaccctt aaaaatctta ttctaacctc tcaagatctt ttaaaaatga 25200
ataatttcag tacagtcgga tgcatctgta aaagataaaa atataacatt gattagtttg 25260
caaaaataat tgtttgaccc cagttaagag atgtactagt caaatttcag tttgactaat 25320
tattaatgtt ataatttacc taacatcacc aacagtacac ttcctccact ggcttaacag 25380
attcctcagc aatatcttta ttagtcatta agaccaagga tcaaaataaa ttaagttaga 25440
ttagccctgt gaactgctat atctctaagt ggtagacaag gttttcaaaa ctaagaagcc 25500
atactcaatc atatttctct tgaaataata tttttagtaa gagaaaaata tttttcaaat 25560
catgaatata ataaaattat tttttaaatt aagtacattt cagctctata tgccttttt 25620
aaaggctgtt tccagttttg gagaagtttt acactgtata taatctatga gtttagaatt 25680
atatgggttt cagttataaa taaatataat tttgggcact tgatcaagtg ttttattggt 25740
aggagtgaac ttcagacatt tgaaaacagc tgcccagaga atccttagga gggtgattcc 25800
ccagcacagg tcaggagatg caaatcactg tgctctgata ggggtctttt taaaaggcac 25860
tttctcatgc agttaggcat ttgataaagc attaaattat gtatacttta atgggaggga 25920
ataaaatttt attggcatat attgcttgta ttaaggaaaa ttggttagaa attttgctaa 25980
ctcttctgtg agtttctcta aagacatcat aaaatgtttg tgattaagaa catttagagg 26040
agtaaacttt attgctttat tttaaaatct agaaattgtt ttaattaatt ttctaataat 26100
ttgtaccgct catcagcaaa acagggattt ggacatgttc atcaatgcct ccaagaattt 26160
caacctcaac atcacctggg ctgccagttt ctcaggtaaa gacatacctа gagaagaccc 26220
tgcaaatgaa ggtgtggtag attaagaaat gtaatatagg aattgagaaa gcgagctcag 26280
gagacagatt ggtttgaaac ccacccttgc cacttactag ctatgagacc ttgagcaagt 26340
atctaaatcc ctctctaaac cttagcatta ttttattcat ctgtaaagtg aggataatga 26400
tacttacctc ttagaattgt tgtatagatt aaattaggtt atacctacca gagcttgctg 26460
tggtgtcagg ctcagtgtgt ggttactacc ctagcccacc accaccattt ctgttcttgc 26520
tgtggccact ggcactacca tcattgtcta catccgtgct tcggaagtga aaaattcaaa 26580
tgattcgttt caataaatga aaacatttta aataaaatga gattttagta ggtacagaga 26640
aatgtaactt gggaattaca tcaagctcta aaagcacagc tcttgctgtc tgccttactg 26700
tgattcactg aagatctact gtatagaaaa tctaaagaaa taaagtgata aggccaagtg 26760
ctgtggctca tgccttttaat ctcaacactt tgggagactg aggcaggagg attgcttgag 26820
ctcaggagtt taagaccagc ctgggcaaca tagtgagacc ctgtctacaa aaaaaaaaaa 26880
aaaaaaaccc aggtgtagtg actcatacct gtaatgccaa ctactcagga ggctgagatg 26940
agaggatcac ttgagcccag gggttggaga ttgcactgag ccatgatcgc accattgtac 27000
tccagtgtgg gcaaacagag caagatccca tctcttтaaa aaaaaaaaaa aaaaagaaaa 27060
aaaggataat cactacttaa cttgataact caacaagtag atatgggttt gaaatttgtc 27120
cattaaattt ccatgcaccg tgctgttagg caagttactt aaggtttctg agccagtttc 27180
ctcctgtata aagtaggata gtaaaaacac cgtcctggca gggcgtgata gctcatgcct 27240
gtaatccccag cactgtggga agccaaggtg ggaagatcac ctgaggtcaa gagttttgag 27300
accagcctgg ccaacatggt gaaaccctgt ctctactaaa aatacaaaaa tcagccaggc 27360
gtggaggcac gtgcctgtaa tcccagctac tcaggaggct gaggtaggag aatcgcttga 27420
accttgaagg tagaggttgc tgtgagccga gatcacgcca ctgcactcca gcttgggtga 27480
cagagtgaaa ctccatctca aaaaaaaaaa ataaaaaaac accttccaaa gtagagtgat 27540
gtgagaatta aatgagataa taaatgaagt actcaatata gtgcttgaaa tgtggtaaat 27600
ggtaactata ttttatcatt attactatta caatactggg tttttaaaaa tcaaaaacac 27660
aaagcaatga gattgatgca aaataagaat attgccttgt gcacgccact tacgtttatc 27720
atcttaaaac attgtgtaga atttgagaaa agttcagaaa ctctcaatga ggagggactt 27780
ttaagaaaaa gtctgaatta tcagagtatt tggagaaagg caacatctcc aggcatgtga 27840
aagatttgca atgagccggg cggtggctca tgcctgtaat cctagcactt tgggaggctg 27900
gggcaggtgg attacctgag gtcaggagtt caagaccagc ctgaccaaca tggtgaaatc 27960
ccgtccctac taaaaataca aaactagctg ggtgtggtgg ggcgtgcctg taatcccagc 28020
tacttgggag gctgaggcag gagaattgct tgaacctggg aggcggaggt tgcagtgacc 28080
caagattgca tcattgcact ccagcctggg caacaaaagc gaaatttccat ctcaaaaaaa 28140
aaaaaaaaaa aaaaaagatt tgccatgagt gtctcaatga agacgtgata atgtgggctc 28200

```
tagtcacagg gtctaactca gacatggaaa aaagtccatt tcattaatct ttatcggcac   28260
ttgaattcct ggctaaggga gaatgtggaa cattgaagga ctctctggga ataggatgga   28320
gttataccag attaggggga cttaaatact gtggtagctg gtggtagaag ggaggactga   28380
gtgacccctt gaaccccctcc tccctgctac agtgggttag gcagtgagcg gtacatcagc   28440
attactggca tgggagtctg gcgcattgcc aaggaggtgt aaaggggaaa tgcaaaggaa   28500
ttgaagtggt gtgggcaaag tgaatgccag tgcttgttaa taggattcta gtggtatctg   28560
tattttcatg atcatgtgtg tcacctgttt gggggtgggg caaggtggta agggagttac   28620
atggattcct ggtaaaacca tttttctttc tttcttttct ttttttgag acggaatttc   28680
gctcttattg cctaggctgg agtgcaatgg cgcaatcttg gctcactgca acctctgcct   28740
cccaggttca agcgattctc ctgcctcagc ctgctgagta gctgggatta caggcatgcg   28800
ccaccacgcc tggctaattt tgtatttttа gtagagacgg ggtttctcca tgtttgtcag   28860
gctggtctca aactccgacc tcaggtgatc cacccgcctc ggtcctccaa agtgctggga   28920
ttacagatgt gagccaccgc acccggccag taaaaccatt ttggttaggg gcatаggctt   28980
gtatatcagc ctgcccagct ttaaatctta tctccatttc ttgttggctg tgtgacttga   29040
gggaagttac ttaatttctg tgaacctcaa tttcccagtc tataaatgaa gataataata   29100
gggcagctgt gaggattaaa tgagattgag ctcttaaagg ctattactgg aacacaggaa   29160
atgtttgata aatgctattg tccttattat taatgaggcc agattctgtt ctccccctag   29220
ccccccaaaa aatgtctctt ctctttcatg tttttctttt aacagctgga acccaggctg   29280
gagaagagat gcctgttgtt tcaaaaacca acattaagga gtacaaagat agtttctcta   29340
atgagaagtt tgattttcgc aaccacccaa atatcacttt ctttgtttat gtcagtaatt   29400
tcacctggcc catcaaaatt caggtaagaa gaggcttttg gtctcatacc tgcaaaggtg   29460
gtgaaatctc tttagtaaga ctaaatttac taatttggag cttgtggtaa atgagatgtg   29520
caatgtggct ttgcctttgt aacgtgtatg gcagaggagt gctgagcaca tgcatgctgc   29580
acagaagatt ggagtgggga tggactgtat cactcatgaa agacatttgc aaaagcactg   29640
ttgaaagcaa gttggcatgt aacagatttg gtcattataa acgtattcac ttcttcagtg   29700
agcatttgcc atgtgaaagc ctgtagggct acacaaagaa cttcaattct agagtaaggt   29760
ggatgtaagt gaaacaaacc cacatataac aactgaaagc cagagtgtgg aaagtgacat   29820
gagatgatcc cagaaatgct atcaaagttt aaaggaggac aaatggggag actatgttga   29880
agaacatcag ccttctagtc agacagaggt ggattgattc ctggctccta tacaaatcat   29940
acagcctttc caagtctcca gttctctgtg catgtgacct gaagggtagt tgtaaggggc   30000
tgtgcagctg ctgcagtgtc ttgttagcct gctcctttcc tctgttccca gggggccagt   30060
gtactccctc ttgtccgaga cccatggccc cattttaact ttttatactc atgtcccctg   30120
gggccttttc tcaatacctt ctgcttctta ccttcttcat ttaggtgaat gtggaggtta   30180
gggataggtg ggctttcaag gactggttca cctttaacca tggaagcatg gtcactggac   30240
ggaggctgtt gctgtttgcc aatgttcaga agcataatca acctcagaag caagtcacca   30300
caaacatatg aaaaaagttc aacatcactg atcattagag aaatgcaaat cagaaccaca   30360
gtgagatacc atctcacacc agtcagaatg tctgttatta aaaagtcaaa aaagaacaga   30420
tgctggcaag gctgtggaga aacaggaacg cttttacact gttggtggga gtgtaaatta   30480
gttcaaccat tgtggaagac agtctggcaa ttcctcaaag acctagaggc agaaatacca   30540
tttgacccag ccatcccatt actgggtgta tatccaaaag aatataaatc attctgtaac   30600
aaagatacat gcacatgtat gttcattgca gcactattca cagtagcaaa gacatagaat   30660
caacctaaat gcccatcagt gatagactgg ataaagaaaa tgtggtacat atacaccatg   30720
gaatactatg cagccataaa aaggaatgag atcatgtcct ttgcagggac atggatggag   30780
ctggaggcca ttatcctcag caaactaatg caggaacgga aaaccaggta ccacatgttc   30840
tcactcgtaa gtgggagccg agaacacatg gacacatggt ggggaacaac acacactggg   30900
gcctattgga gagtgatggg gaggaaggag agcatcagga agaatagcta gtggatgctg   30960
ggcttaatac ctaggtgatg agatgatgtg tgtagcaaac cactgtggca cacgtttacc   31020
tatgtaacaa acctatacat cctgcacatg tacccctgaa cttaaaaatt aacaataaca   31080
aaaaaagcaa gttatcactc atcaattagg atgccttggg actgtgacta aagaacagtt   31140
gatctttcca ttctggaaat atggaggaca aaaactatgt tgtagttttt ctcaccaccc   31200
tctctccttt ttcctgtctc catggtctaa gatttgttaa tcctctcatc aggttctccc   31260
tttgccctcg catactccct gtgtcctcc tcagccagtc ttgtaagcat cagccacgct   31320
tcttattcct gttttctctt gtctagtcac acatctgctc acaatggtct ggcctcttcc   31380
ctcaccacat cctgaaactg tcctgtcata gtgggcccca gtgatggaat ttttcagtcc   31440
ccttttatc tcattgcatg gctttgaatc atcatctttc ttgtcttcct ggatttttct   31500
tttcctcgtt ttctggccag tctttttagg gaatcctctt cctcttcctt aaacactggg   31560
cttgtctagg attcagacct ggtccttttc tctcttcact ctgtttcctg catgtgggac   31620
ttgtggtgcc acatctattc tggtgattct cagtgctgtc tccagaccgg cactggcagt   31680
```

tgctgcctgg acagccctac ctgggtagtc aaagctcccc gcgttcggtg catattcctt 31740
cttgtgatct tagccccaga cttccatgct tcctttctct gtaaacagca ccaccatcac 31800
cctgttgtac aagctagggc ctgatgatca tttgcattcc tgggataaac ccaacttgag 31860
catgacgtat tatttcctta ctttacacgt tgttggattc agtttgctaa tatttaggtt 31920
agaatttttgt atctatttca tgagtaagaa tgtctgataa ttttcccttc ctgtccttgt 31980
tatggttttg atatcatgtt aaactaactt ttaataatta taatttgagg agttttcact 32040
ctttctcatc tctggagatg taagattaga gttaactgaa cctcaagtac ttggtagctc 32100
tctcctgtaa aatcatttga tcctagtgtc ttatttgtgg agatactttt tagctgctga 32160
ttcagcttct ttaatagtta taggatattt tgaatttcct ctttatttga ttcacttttt 32220
aatatttttt ctaggttttt atatcatgtt tttaaatgta tttttaattt tactttttaa 32280
attgatacat aattgtacgt atttatgagg tacatgagat attttgatac atgcatacaa 32340
tgtataatga tcaaataaga gtaattagga tatccatcac ctcaaacatt tatcatttct 32400
ttgtgttgag tacatttcac atcttctagc tattttgaaa taatgaataa gttattgcta 32460
actatagtca taatgactat tgtgccattg aacactagaa cttattcctt gtaactctat 32520
ttttataccc attaaccttct atctccccag ccccccagca gctggtaacc accattctgc 32580
actctacctc catgagatca gtttttttag ctcccacatc tgagtgagaa aacatatcta 32640
tctttctgtg cctggcttgt ttcacttaac ataatgacct ccagttccat tcatgttgct 32700
gcaaaggaca ggattccatt ctttttgtga ctgaataata tttcattgta taatatatac 32760
aacattttat ttgtccattc atttgttgat ggacacgtag gttgattcca tgtcttcact 32820
cttgtgaata gtgctgtgat aaacatttag agcatgcagt atctctccag tatactgatt 32880
ttctttcttt tggatatata cccagcagcg ggattgctgg atcatgtggt ggatctatta 32940
tgagcagtct tcatactgtc ttccatagtg gctgtactaa atatttaca ttcccaccag 33000
cagtgaacta gtatcgtctt tctctgtatc ctcgccagca tctgttattt tgtctttcta 33060
ataatagcca ttttaactgg gatgagatga tttctcatta tggttttgat ttgcatttgc 33120
ctgatggtta ctgatgttga gatttttttc atatgcctgt tggccatttg tatgtcttct 33180
ttggacaaat ctctattcag atcatttgcc catttttaaa tcaagttttt ttcctattga 33240
gttgtttgaa ttgctggtat attctggtta taaatccctt gttggatgga tagtttgaac 33300
atattttctc tcattctata agctgtctct tcactctctt gtttcctttg ctttgtagag 33360
ctttttggct tgatataatc ccatttgtcg attttgcttt ttgttgcctg tgatttcgac 33420
atcttacaca aaacatcttt gcccagacca atgtcctgaa ggatttccc aatattttct 33480
tctagtagtt ttatggtttt aggtcttata cttaagcctt taatccattt aaatttgatt 33540
tttgtatgtg gtgagagaga ggggcctagt gttatttttc tgcacatgga tatccagttt 33600
tcccagcacc atttattgaa gaacctgtcc tttcccccac tgaatatttct tgactccatt 33660
attgaaaacc agttggccgt gaatatgtgg atttatttct gagttcttta ttttgttcca 33720
ctggtctgtg tatctgtttt tatgctggta tcatgctgtt gtgggtacta tagctttgta 33780
gcatatttttg aagtaaggtg atatgatgcc tccagttttg ttcttttgc tcagaaatgc 33840
tttggttggc tgagtacagc agctcgtgcc tataatccca gcacttggg aggccgaggc 33900
tggtggatca cctgaggtca ggagttcgag accagcctgg ccaacatggc aaaaccctgt 33960
ctctaataaa aatacaaaaa ttagccatgt gcagtggtgg gtgcctgtaa tcccagctac 34020
ttgggaggct ggggcaggag aatctcttga acccgggagg aggaggctgc agtgagccaa 34080
gattacgcca ctacattcta ccctgggcaa acaaagcgag actctgtctc aaaaaaaaaa 34140
agaaaaaaaa aaaaaagaaa tgctttggct atttgaggtc ttctgtggtt ccatacaaat 34200
tttaggattg tttttctat ttctgtgaag aatgtcattg gtgtagagat tacattggat 34260
ctgtaggtag cttttggtag tatggttttt ttcacaatat taattatttc agtccacaaa 34320
tgtggtgtct ctttcaattt ttttgtgacc tcttcaattt cttacatcag tgttttatag 34380
ttttccttgt aaagagggct ttcacctcct tggttagatt tattcctacg gttgtttttg 34440
gaagttttta aaaaatctat cgagaatggg attgctttct tgatttcttc ttttgctagt 34500
tcgttgctcc tatatagaaa tgattctgat ttttgtgtgt tgattttgta tcctgcaact 34560
ttactgagtt tgtcagttct tagtttggtg gagcttttag ggttttctgt atataagatt 34620
atatcaactg caaatagggа cactttgact tcctcctttc agtttggatg ccctttattt 34680
ctttcttttg cctagttgct ctggtcaaat atgttgataa cttgttgatg ctgtcctcta 34740
atgctcgcag cgtctgtgtt catgaaaccc tttgttgtat tccaatgttg atagcattat 34800
tcacagtaat caaaatgtgg aaacaaccca aatatctatc agtggatgaa tggataaaca 34860
aaatgtggta tgtatgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtata 34920
ataaaatgtt attcagcatt aaaaaggaat gaaattctga tacatgcgac aacacaagtg 34980
aaccttgaaa acatgctaag tgaaataagc tagttgcaag aggacaaata ttgaatgatt 35040
ccacttaaca tgaaatatct agagtagtac acagattctt agagacagaa agtggattgg 35100
aggttaccag cagctagggg gagcgggaaa tagggaatta ctgcttcatg gttattaaag 35160

```
agtttccctt tggggtgatg aaaaagcttt ggaagtaggt agtgatattg gttgcacaaa   35220
attgtgaatg taattattgc cactgatttg tacacttaaa aatggttaaa gtgattttat   35280
gttatatctt actacaataa aaaaagtctt taaaaatctc agcaagatgt ttttgtagat   35340
atagacaagc ttatttctgaa atttatatga aagggcaaaa gttctagaat agctataaca   35400
atttagaaaa agaagaataa aatgggaaga atcaacctac ccaatgttaa ggcttactat   35460
ttaggtacag taatcaagac attgttttcag gtagaggggt agacacacag atcaatggga   35520
taggctgatc tataggtaga tcccagaaat agaaccacat aaatatgtcc aactgattag   35580
gatttgattt tgtttgtggt gttttttttga gacagggtct cactatgatg tccaggctgg   35640
tcttgactcc tgggctcaag taaccctctc acctcagcct cctgaataac tgggattaca   35700
ggtgcacacc gccacgctag ttccagctga attttttttt ttttttttt tttttgagac   35760
agggtctcac tttgtcgccc aggccaaagt gtagtggtgc agtcacagca cactgcagcc   35820
tcaacctccc tggctcaagt gatcctcctg cctcagcctc ccaagttgct gggactacag   35880
gtgcatacca ccatgcctgg ctaattcttt ttttttttt ttttttttt ttttggtag      35940
agatgagatc tccctgtgtt gcctagtctg gtctcaaact ctcaaactcc tgggctcaag   36000
tgatcctccc gccttggtct cccaaagtgc taagattaca gacatgagcc gttgcgccca   36060
gcccccagct gatttttgac aaaggccctg caaaggcaat tcaatgaaga aaggatagcc   36120
ttttaacgaa tagtgctaga gcagttggac aaccataggc aactaaagga atctctaaat   36180
ctcacatctt atataagaat taacgcaata ttgatcacag atctaaatgt aaaacataaa   36240
actataaaac ttttagaaaa aaatatagga gaaaatcttt gaatcccaaa acgaaacaaa   36300
agctttttag actcgatact aaaaacgtga ttcataaaag gaaaacttga taaactggac   36360
cacataaaac caaaagtttt tgctctgtga gaaaccctgt tatgaagatg aaaaggcaag   36420
ctatggactg ggagaaaata tttgcaaacc atatttctgg gaaagcactt gaatctagaa   36480
tataataact ctcaaaactc aacagtaaac aaacgaacaa ttcagttaga aaatgggcaa   36540
aagacatgaa tagacattta accaaagagg atatacatat ggcaaataat gacataaaag   36600
atgatcggca tcaataacca ttagagaggc caggtgtggt tcacacctga aatcccagca   36660
ctttgggagg ccaaggcagg cagatcacca cttgaggtca ggagttcaag accagcctag   36720
ccaacatggc aaaaccccgt ctctactaaa aatacaaaaa ttagccaggc atggtggcac   36780
atgcctatag tcccagctac tcaggatact gaggcaggag aatcgcttga acctgggagg   36840
cagaggttac agtgagctga gattgtgcta ctgcactcca gcctgggcaa cggaatgaga   36900
ctgcctctca aaataaaaat aaaataacca ttagagaaat gcaaattgaa agcacaatga   36960
gataacacta cacacttatc aaaatgacta aaattaaaaa tagtaataac accaaatgtt   37020
ggagagagtg gggaaagatt ggatcactca tacattgttg gtgggaatat aagatggtac   37080
agtcactctg gaaaatactt tgtttcttaa aaaactaatg ttatacttat catataaccc   37140
agcaattgca ttcctaggca tttatcctag agaaatgaaa accagtgttc tcacaaatct   37200
ctgtacaccc gtgtttatag cacttgaaag caatatttaa cagctttatt tataatagcc   37260
caaaactgga aacaagccaa atattcctca acaaatgaat gcttaaataa atgatgctac   37320
atacacacca tggcctaata cccagcaaca aaaagaaatg aactgttgat atacagaaac   37380
acaacaactt tgataaatcc caagcaaatt ttgctgattg aaaaagaaaa tcttagaaat   37440
ttatatactg catgattgca tttatataac atttgaaaat gaaaatttta gatcttatat   37500
acctatgcac atattgaata agtatcctga agcttcaaat ttctctgact tcttaggact   37560
ctgatctcta gaccctgttt taaaggagct tatctgatta ggtcaggcct acccacacag   37620
gagtagggaa gatacagagc ggtgcccatc aagaaggtgg aaatcttggg ggcattctta   37680
gaattctccc tgctgtaggc tgcatttgga atagagcttg cagggggttc ggtagtttct   37740
ccgatccgaa aaaggttgag ctctaggtcc cagtcagtat aatttcagtt tggcaacatc   37800
tcctgacact attaagatat agattatata tatttgttag gttattttca tgtaaacact   37860
tgattagggt tctagtaaat aaaatttatt tatttactca ttttaagttg agattgtttt   37920
tgtactgaca tacctctcca tattctcaat ctaattgaac atcgtgcttt gttgcttata   37980
gctgacaaat gattaatact ttttagattc ttagtgaaaa tcttgactta tgctgctgac   38040
acttttccca gtctgtgcct ataagcaggc ttttgtgctg gagatggcca tacttgttgc   38100
caatgccgag ttttttttct cccagttccc tattgctcca ccctctgaaa gtcactgaag   38160
tggttttaga gctttcattc tagagggagc tcttccccac acttacttct aagaagtaat   38220
aattttaagt ttcataatca aggagatgtt gattttcttc ctggttttct ggtgctcctt   38280
atcttttctg gatcactaac ttaaattaag atccacttat gaatgctgca ttcaggagca   38340
cttgtgaaaa taaacgatgg catgcccacc atttagtttg ccaagctttc cttgaaaacg   38400
caggtaagtt ctattgcaaa cgtgtctttt tgctgtttgg tacaaatgac tgcactattc   38460
actgtgacta ggcccgtgtc accgtgtgtt ctcagtcctc gcatgagagc ctggttgaca   38520
ctggttctct ctgctttggg gaccgtatct ggctgtgcgc tatgtggagg gctgagctcg   38580
tgtcttcctg ggtaaataca tcatgttctc aacaagggct gcatgttttct ttattgctgt   38640
```

```
ttttccccca gagacttagc ttttctaggt gtgtagcatg gctcttaaat acacacattt   38700
agcaactgtg caaattcagt aaaaatggag agacttattt aaggaagaca gtagggaaat   38760
gtctaaatag tgcagtgtag gccattcagt taaatttcag tatggctttc gatgcaggca   38820
aagccgtttt gcctttgatt ctcatttttt aaattagatt ttaaaaattg agattctcct   38880
ttttaaatg agattttaaa aattgagatt ctccttttt aaatgagatt ttaaaaattg   38940
agattctcct tttttaaatg agattttaaa aattgagatt ctccttttt aaatgagatt   39000
ttaaaaattg agattctcct tttttaaatg agattttaaa aattgagatt ctcatttttt   39060
taaagcaaag taactgagga aatctaattc tctacttgga aatttgtgta agcattgggg   39120
ctttaaaaat ggtaatacta aactcaagtt ccttcactct gaaccaatcc caggattctt   39180
ttccataatt aggaacagat caaaacctat aactgctgag ggaatttgaa actgactata   39240
aaaatctttg tagatgcagc taaaaaacaa acaaaaccca cagactgaaa agtcctgttt   39300
ctgggagggt ggcgggtgtg ttggggccgg ttgtgcctgt tttttgattg gttgttcctg   39360
tgggtgagca cccttccctc tgcccctgct ttctgaaagc tatcctagtt gttctcccca   39420
gtaagccggg gctcagccgg cttcagctat gtccatagtt tgggggcgtg ggcggtaggt   39480
attcaagata gaagatggtt ggacagaaag tgtgtgaggt gggaaggtgg agtggtgagg   39540
ctctggctcg ttcccgactc tgcaacagag gttgttactg taatgtggag ctaatataga   39600
agtctgcgtg ctgggtgttt catctactgt tttatgtaag aggccagtgt tcacaagtaa   39660
aggcaacaca gaattggtat tgagaactgg gcattcattt agatttaga gttctgttta   39720
tgggtgctaa caggatcgct atactgagca agggatgtgt gaaactttg ttcacttgga   39780
tgtgcttttt ttcttataac agctttattg agacatcatt tacataccat acagttcgct   39840
catttaaagt acacaattca gtggttttca gtgtattcac agaagcgtgc agccacccgt   39900
cactacagcc aattttagaa tattttcacc acttccagaa gaagccccta gcagtcagtc   39960
ctcattcccc cctcttccgg caacccccag tctgtatttc ctgtctctgt ggatttgcct   40020
attctggaca ttttatataa attgagtcac atgatatgct ctcacttagc atactgtttt   40080
caaggttcac ccgtgtttag tatgtttcag tacttattcc ttgtcatagc tgaataatct   40140
tccttatatg tatataccac gttttgttta tccatttttc tatcgatgga tgcttgggtg   40200
gttttcactc tttggctatt atgaatagtg tcagatatac ttttaatgtt tatatttatt   40260
gtataataac agtgcatatc cgtacctcct ggtgttaatt gtctgtatct taagagtttt   40320
aagaattata tggttgtgct gtaattctag cacttaggga ggccgaggcg ggcagatcgc   40380
tttagctcag gagtttgaga ccaggctggg caacatagta aaaccctgtc tctactaaag   40440
tacaaaaaat tagctgggcg tggtgaagtg ttcctgtagt cccagctact tgcaaggctg   40500
aggcacaaga atcacttgaa cccaggaggc agatgttgca gcgagccaag attgcaccac   40560
tgtactgcag cctgagcgac agagcaagac tcctgtctcc aaaaaaaaaa aaaatttttc   40620
tttatgatga aacccacaag gctgtacaag aaccttaaat atagtttgaa acaaagaaag   40680
acacatgctt ttaagtacag tttaattctt ttctttttctc ttatttcatt ttttttttt   40740
ttggagacag agtctcactc tgtcgcccag gctggagtac agtggtgcaa tcttggctcg   40800
ctgcaacatc tgcctcctgg gttcaagtga ttctcgtgcc tcagccttgc gagtagctgg   40860
gactacagga acacttcacc acgcccagct aatttttgt attttagtag agacagggtt   40920
ttaccatgtt gcccccatca ttctcagcaa actatcgcaa ggacaaaaaa ctgaacaccg   40980
cttgttctca ttcataggtg caaactgaac aatgaggacg catggacaca ggaaggggaa   41040
catcacacac cagggcctgt tgtggggtgg ggggaagggg aagggatagc attaggggat   41100
atacctaatg ttaaatgacg agttaatggg tgcagcacac caacatggca tatgtataca   41160
tatgtaacaa acctgcatgt tgtgcacatg taccctaaaa cttaaagtat aattaaaaaa   41220
aaaaaaagaa aaatgtgtta ttccttgtc tcgaaagtcc cctgcttttc agcttttgct   41280
ttggttgtct cttgtcagct ctttaatgct attgttccct tgggtttcat ctggactctt   41340
tttccctggg caatctcatc cacaccatct gggaacattg cctttggctg gacaggtaaa   41400
tctttgtctc tagcagactt ctctcctgtg atctccagag ccaggaaccc actagacttc   41460
cttaaaattc attcagccag cagactttct ggcccagagc agcagctgtg agtggacagc   41520
aggcacctcg ttagaagctt ggtgttggag gtgtgcccat gcattcctgg gagccatgag   41580
aggggagggg agtgcctgt gtcacctgag tccaagttaa gagagatcac accagagctg   41640
attcctaagg agcatggggg cggggaagg gggtgttcgt ggtggggaaa ggaaatgacc   41700
agccctttca ggaactacca ggagtttagc agagctggtg acagtgctat gagcaagaag   41760
gtggagagct ggggagggcc attatgaaga gactggagat tgcaggctgt gaacttgagt   41820
cctgatgtga ctgggaattg ttgagatgtt ttaggccgaa aagtcaccga cgatcagtgt   41880
ttagaaagac cccactggca gcagttggga gtgtggattg gaaggagcca ggcctaagtc   41940
ctggagggac ttaggaggtc caggagtcca gggagtccag gtggaattct tgtgtagaaa   42000
cccagggaag gggaccatct gatgacacac atcccatagc aacttccttt cctcctctgc   42060
acctccacag cagagtgtct gtttccacta tacgaagatt tcttaatggc aaggatcgca   42120
```

```
ttttttatccc tcagtgtcct cagtgtcatg tgctaatcag ttggagacac tccctaaatg   42180
tatgccagat gagtatatag ttgttagtat aagggcttta cggtaggtat cagaactttt   42240
tctttttttac aacttttata acttttataa aggagccgac acctttttct gatattgtca   42300
gaacaattgc tgaccagtgc tatgggctgg ctgaggttgg caaccaagaa tctgttatct   42360
cagtctacac agcgtggagt tagaagattg gattgttgtt ggttagaatt ttgtccagag   42420
agttagaaga tagaagaaaa gggagggctg aggacataaa catccaaatt ttacaaagaa   42480
gaaagttcag tgctcctgtc tatattgaaa tagttaagag ggaaatgatt gggtctgggg   42540
aatgcttcaa aataatatga tcataggaa agtaagtgta gtgtggatga aacaaggttg   42600
gccttgagct gataatttac taaagcagga tgatgagcgt gtgaggttca ttatagtgct   42660
ctttctactt tttaaaaagc ttaagatttt ccaaaatgaa aaagaagctg agcatggtag   42720
ctcacgtctg taatcccagc actttgagag cctgagacgg aaggatcact tgaagccagg   42780
agttcgagac cagcctgggc aatatagtga gacccccatc cctactaaaa aagaaaaaaa   42840
attacacaat gaaaagaata atacaggtgg tagaagaaga aataaaggta tgagtatatg   42900
atttggcctc ctacagacag ctacaggagc atgcctctgc tgggcgggcc tggagcatag   42960
tgcaccctgg agctgaagtt ctgttcgcct ttacaggaag tacacagcat tgtacggggg   43020
ttttaccagt taacagtgga cagtctctag aacactcagg ggtcaggggc aaaactccct   43080
ctccctcaaa ccagcccacc tgtcttggtg agaatggaaa acggagcttc ccagcaagcc   43140
tcctgccttc accccgacgc acaggtgcat cagggtctga gggctcctcc ctgtggggcc   43200
tgggaagccg cccttcagtg ggctatggct gcattgtctt ctgatcttgt agctgtgtgt   43260
gggtaacagg cacatcgtct ccccatatcc cagagagtca tgtccacttc ctatctgtgg   43320
tggcatcttt ccatcactgt caccctcagg ataatggcac aggaactaac agaggcacta   43380
agagcagtga tatatactgg agggaggggc ggggctgatg accaaaatca ccttctgttt   43440
cagtaagagg ttggttaaag tgatgcctaa aatggataga tcaggaaata acaataaaaa   43500
cattaatgat aaaaaggcaa ctgccagaag aactgaaaag taacctagtt caaggtgggg   43560
gtccctggag agaagccttc agaagagcag aggaagagca gggaacattg cttttcatga   43620
ctagcctttc agtgcctttt gatatttcag ctaagtatgt agttctctaa tgatttctaa   43680
attgttaatg agtgtgatag aataggaatt ctggagaatg gtcaaaagga attgctagga   43740
gaaaattagg gaaagaaagc acagagcagt attgaggtgg gaggttggga gcagacagat   43800
ggtgagtgtt cgtttgcatg gcaggaatga gtggctgaat ggcattaact ggccatgggg   43860
ctctgaccag agcttgggta tacagtttct gtgccagcac aaaccagcat taggtgcgtg   43920
gtgtgtgagg ccgggtgatg gtcatatgga tctggtccag agctgtggtc ttgacataga   43980
gttccatgta tgaacttgg tggtggtggt ggttttgttt cgttttttaa gaaaaaaaga   44040
agagttgttt tatgtcacag ccaaactcaa ggaggtgaca gcacaagacc caggttagaa   44100
tgtacttagc cagggctcac ggaatcttcc atcctttgca aagccaagaa gagtagaggc   44160
ctcaaggaga atagaggagc acatgggctc cttctgggct gagctctcac ccttggtggg   44220
gccgctggtc ccaggggtgtc gttgggagcc tgcggagatt ctgcccagta catacatacc   44280
ttgcgttttc tcggagcctg acaggtgctg ccttgaagcg gaaagacttc acctcacagg   44340
gtggccagct gtcctttctc ttcctctccc tgtcctgtgt gctcatgata atggatagat   44400
agacatctcc atggtagaaa taatgcagcc ctttctgcag tccatggttc cacagcatat   44460
ggtcagtaga cttagatgag tgctacataa agtgtaatta gttctgcacc acggtgtctt   44520
accttctgaa aaggaaactc tggtattgac ttagaaatgc cagttttatc cttccgacca   44580
gaacgcaagt cctgaatgag gccagaggcc aatgaaaggt cctttcttct ctcttttcaa   44640
atctgctgta ttaacagtg actttccta gtcattcagt attcattcat tcatccattt   44700
attcaagttt ttgagtacct tctttgtgga tggcacatag tagatgcaaa aatacaatca   44760
tttttaaaat ggaaagcatt tgttatgtgg tagtggaata taagaaatgc catgcttcca   44820
tatttttatg gtaatcttgg actcaggttc tacccaccat acttaattag aaattcattc   44880
tcagcctctg ttttggcaga gacccattct cttccctcag gaacatacag aaacctcagg   44940
gctgaactga gctcagaggt tggggaaggt cccctggtct gatcttcagt cgctgactgc   45000
tgcgcccgat tccctggccc ctcactcttg agggcagcat cctcactctt gtgtggcaca   45060
ggcttggaca tagaatgaca cttaagcacc agagcctccc tagcctgcca caaggacacc   45120
ctacattccc aggcactttc agaatgcaaa acctcccctc cattccctcc ctttccctgc   45180
ctccaggttt gggccctgcc tctccttttg tttcaaagca ctgtcctctc ttcctctacc   45240
cttatccttc cccatctccc tcccactccc caaaagagcc aaactaatta tggggattta   45300
accttccaat taaaggcgag gatttttttt tttcaatgca gttcctgaaa tgctaaagaa   45360
attgtccagg gaaaggagca caggaggagt tttgttttgt tttgttttgt tttgttttgt   45420
tttgttttgt tttgttttga gacagtctcg ctctgtcacc caggctggag tgcagtggtg   45480
cgatcttggc ttaccgcaac ctctccacct cctgggtttg agcaattctt gtgcctcagc   45540
cccccaagta gctgggatca caggtgcaca ccaccacgcc agctaatttt tgtatttttа   45600
```

gtagaaatgg ggttttgcca tgttggccag gctggtttcg acctcctggc ctcaagtgat 45660
ccacccacct cagcctccca aagtactggg attaggcgtg agccactgca tccagcctga 45720
tgtttaaata atttcttact tcagagtttc ctgaagtgtg gcctatggag actagcatca 45780
gaatcactgg aggagcttaa agatatagag acagggatag ggcctgagat tctgactttg 45840
ttgtaagcta tccagagttt gagagccatg gcctagttct tggaatacaa aagtgtatct 45900
gctcttgtat gggaggtagg aagttacctt ttcattcatt cttctacaac agtaatttaa 45960
aagttaggaa ttggtatctt catagacaga agaatgcagg aatcctcttc tcaggatgtc 46020
tgtctttaca cagccatggt atatggtaga ccaagtttgt ccaacccatg gcccgcgggc 46080
tacatgcagc ccaggacggc tttgaatgca gcccaacaca attcataaac tttcttaaaa 46140
catgattttt ttatttatt ttttttaag ctcatcagca ctatcgttag tgttagtgtt 46200
agtgtatttt atgtgtggcc aaagacaatt cttccagtgt ggcctaggga agccaaaaga 46260
ttggacaccc ctatatagac cataattatc acacgccctg agagggaagc agatcaatgg 46320
tgagggagcg tagaggagag cctgccagag tttccagtgg ggccggggat gcttaaaaac 46380
ggaggcagtg atgtgctgag ccagaaagga cagggaggac ccccatgcac acaggcaggg 46440
aggctctctg gtgacatctg ccgtcaggta cagtagtaca gtagtagagt gagcggaagc 46500
acttttggct gaagtgcaac attagtgatt gaggaagtgc aggtccgtaa tatcttaccc 46560
caaaccctgg ggctcactga gcttccgagt tcagagtttt tcagaattga tgaacacatc 46620
cagaaggccc atggggcaga tacaccttag acatattgat gaaagtggag ttggaattgg 46680
gttgtggaag tcgtaggacg tgaattctag gtttcttgga gtgtggagta tggtgtctac 46740
tgtttggaaa cagagaagaa tgacattatg agttttattt ataaaataag aatttcttct 46800
ttgtattaaa atagatttgt atataggaaa ttttcattac cttcagtatc agaaaggccc 46860
ccaaatctat ttcaccgttt ccataataaa ttgtgaaaga aagatttgat tgggatattg 46920
tctttaaaaa tgaaaccaaa aagtatggga aaatacttta attttagagt taacaacatt 46980
tatagttaca atcatgaagc aggtatggtg ctgcttcatg agccaagttc ataaaagaaa 47040
aaaaaatcag atcttactga gttctgtgag acagatcatt atttttctta ttaacatatt 47100
catttattca gcaaatgttt attaagtgcc aattaatgta tcagtggctg ctttaggcac 47160
tggagatata tggtcagtgg gataagggga agtctctgtc ttcaatcctc acagatctta 47220
ttttccataa gtaagtgtac aaatacgggc tatgaattaa atagagcaag ataaagagat 47280
gggggtgtgg cttcagttgt gcacatggtg cccagaaatc tgatagctcc atcatggagt 47340
ccttcacttg agacttcaca gcaggatgta aaaagcaaca gccaggaaac tccttagttt 47400
tcccaaagtc ctccctaat ctcgtttaga gaattatgaa acacttccta tggcttcatc 47460
ctttatccct tcttcagttg ataactgaag ggctaaatct gccaagtctt cctttgccaa 47520
tggttttgtg cgagcagttc tccaacagcg cttccactaa aatcttgtct tttacaagat 47580
ggattttaca gttggttggc attgtatgac agtctgtgag tagggacagc ccaatgtatg 47640
tttgttaatc aagtttatgc cttttacatt gagtaatttt taattacctc gtgtaatttt 47700
taacagcact ctccttcatc ttcagaagtg ttcagtttga acaataagtt tgtcatcttg 47760
tcagtcaaag gttgaccaac aaagactgac cgcagtgggc ggggtattca gcagggttag 47820
atgtttctaa gtggtcagtg ctttcataaa cattttcacg ttatgacctt tgcctcctca 47880
cacaatcttg taactatgga gacttagatg ataaagattc aactaagagg atcccctttaa 47940
agtcttgggt accagccata ccaaaagctg ttttatatga ggttcttttat gattataatt 48000
tggacatgaa catggagtgg tcctgcttca gcaagaaatc aggctaataa ccattagcat 48060
ccagtgtggg taaaggcggg ggctgccctg aggagtgttg tgtggcacag ggcgcatgaa 48120
caccagataa gtcctcagac agtgccctta gcatccagtg gtttttggca tctagcaggg 48180
agtaaaagta tctcatagat tctttaagtg taaacaccga ggacacactt aacgttttaa 48240
aagattgaaa tccagacagg gctggggtgg actctaatct gtttccttct ctctctttat 48300
gtgttataac ttggattctt cattccccaa aatgaccttg tttatataat tctccagtct 48360
tatctaaaac ttttatgtga ggaccatggc tcatattccg cagctttcct tctctcaagg 48420
agctaggact ggttattgtg ataaatgaag gaaaagaaaa gaaagtgggt ttctgtttat 48480
tgtatgaaat tgatgtaact ttgtatttct gattataaat ggtagccaga gggaggacac 48540
aaaaacttca aattccaagc cccataatat attatggcct gaatagtgtt ggaatttatt 48600
tatttatgga atgtcaaaaa gaaaatagggg ccatcaaaaa agcaaacagt ggaagtctat 48660
tttctggccc ctgtgagtct ggctctaaaa acagtgcaag gggttggggt ttggtgggac 48720
taggaaagca gatgctcgtc atttaccttc ctgtgtttgt catgagaatt gtctgtactg 48780
ggattgtcac cttggtcagt aattgtttcg tttatagtac cattgtctct ccaaagaggg 48840
ctgagttccc taaaaaaaag caggcagcgc accacaacat ctggctagta gcacgtatat 48900
tatcggtgat agtaaggaca caattctcgt atttaatcaa tttggaggta tgcatttttt 48960
cgtgggctaa tatccctgaa atcatgatgc atcttatggt cagtgactta aaaagcatta 49020
tgtcatagtt aaattgacag tgtttttcct aaattataca cagaataatg ccttttcag 49080

```
ccaatgttat tttagagttg atgaaatatg ttgcattttt atattcttgg tatgaagact   49140
attaactgta taataaaatt atttaagttc tgatgacgta gtgtcagatg atgttcagtg   49200
tagcaaaacg cgaggcacaa ttttttgtaa aaaggacaat atcttgcagt cagtacacac   49260
tgagtacata aatgttgacc aaatgaagag cacagaatgg ggctgcccac ctggaggcag   49320
agccatgaat tggtactgag gcaaacaagg agagctttgt gtgtgggtgg aggcgcaggg   49380
agggagcgcc aggcttcatg gaggcatgcg agggtctcca gggtcaaaca gacagaacct   49440
cagaactggt gtgaagctta gaaggggctg caggaggctg tgctaaagcc tcagtgtatt   49500
gctatgggac tggcaactaa acaagtaaac taaaggggtg aggtactttt ccttaagtga   49560
aaaaagtttc cttaacttct ttaaagtgta agctctgttt tcagcttaac tcttgaaatg   49620
agaagcgtga atccgtggtg gtttcatgac ctgcataatc acactacctg tttttctgtc   49680
acagattgcc ttctctcagc acagcaattt tatggacctg gtacagttct tcgtgacttt   49740
cttcaggtaa ttttgcttat acagactctc tctgttcttt tgatttaggc actagatcca   49800
ttaatagagt atcagctcct aaaagataaa aagaataatc ctgtgtttcc accacagatt   49860
aaatttacct catatgtgtt cctgaaaagt tagatgtcag ttacagtaat ataaactcaa   49920
tctagcatga caaagtgaaa acgtttggtt tgtatgttct ggcttccagc ggggggcttt   49980
gcatgtatcc tgtattaatt ttgcatgcat cctatagata atttggctct tcatatgggg   50040
agaatttgga ctaaaacaac atttaattaa taatggttac tgatgtgagc tacacatatg   50100
cttatgcttg ttcaagagat gattctggtg attatcccaa gttttaaagc tgaaagtgat   50160
tttttagtgc cctgggattt tcttttattt ccatagtttt tttcgtagtc taatttttatc   50220
tttatgaaaa tactatagac aaataattga aaaagacaaa aaacgtgctg cagttttttaa   50280
aacagaaagc agcaatagcc tgccttgcgc cttccccacc ccacgtcccc caatttaaat   50340
tgttttgttt tttacttctc tgtgtttaca cttggttttt cagttaagtt ctcttttgat   50400
gtcctactgt agaagatgag gatatactgt gttacatggc ctcccctagc atctcccctc   50460
acaccacaaa agcatacaaa agccccatct ctttcattta ataccattgt atcataatgc   50520
atggctaaat cagtgatccc tatctatgtt atggccataa aactcttatt cacagctgca   50580
ttgaacagtg attacactac cacatttttt gggtagaagg atcatttctt gcttatccta   50640
aatgtagtat ttgccatgtt ttggcttttt aattgttgga tttttctatg tgcctacccc   50700
tgatttatca ctatactctt gctgatgtac ctttagaaca gtaaaaaata aaataaaata   50760
aagtatcatt gtactgtgac agaactgaga aatctcacaa tggtcacaca caggaaggtg   50820
ctctcttggt ttgaatttct ctcggagttg cccaccctag aaccttccca cctcctgccc   50880
ccaagtgcac ttgttcctga ggcctgctgc acaactgtca tttggaaact tcctttgcct   50940
tcctcctata ttgaagtctc tgtttcccag atcccatgtc ttcaccttcc tatccattcc   51000
ctctttttac tggagcacat tctctagatt tatgagaaaa gatgcctggg agataacttt   51060
tctgtgagct ctcctgactg aaaatatatt tattttatcc tacaatttga ttgaatttct   51120
gggggcaggt gctatggctc acacctgtat ttctagcact ttgggagacc aaagtgggtg   51180
ggtcacttga gctcaggagt tcgagaccag cctggacaac atggcaaaac cttgtctcta   51240
caaaaaatac aaaaattagc tgggtgaggt ggcgcaagcc tgtagtccca gctaatcagg   51300
aggctgaggc aggagaatgg cttgagccta ggaggcagag gttgcagtga gcggagatgt   51360
caccactgca ctccatcctg ggtgacagag tgagaccctg tctcaaaaaa aaaaaaaaaa   51420
aaagtctgac tacagaattc taggttcaaa atcattttcc attagaattt agaagacgtt   51480
atactatttt ttctagtgtc cagtataata ttgagaaggc tagtgctgtt ataattccca   51540
ctctttgtat gggatccgtt ttctctctta aaaagaaaag tatatttaag tgtaatataa   51600
agttacagaa acatttgcaa atcctatgtg tgtagctcag tgaattatca caaattgaac   51660
acttctagag tattgataat attatctctt gttcacccag aacacttcag gcttcttatt   51720
tcttctctgt cagtttcggc aagttgtata tagttttctt ctaatgatcc cattccatct   51780
gttccattct cttgttcact gagaacaaga gttaatatta ccaatactct agaagttcct   51840
cttgtgtttc ccctcactca caacctcctg cctcttccca aaaggtacca tttacctgac   51900
ttctcaaacc atacattgca tttgctattt ttgaaatgca tatgaattat ttctttttttt   51960
ttttttttttt ttgaaactta gtctctctct gtcacccagg ccagagtgca gtgttgtgat   52020
cttggctcac tgcaagcaac cgccgcctcc cgggttcaag caattctcct gcctcagcct   52080
cccaagtagc tgggattaca ggcacgtgcc accacgcatg gctaattttt gtatttttag   52140
cagagacggg gtttcaccag gttggccagg ctggtctcga actcctgacc tcaagtgatc   52200
cacccgcctc tgcctcccaa agtgctggga ttacaagcat gaaccaccgc gctcagtcaa   52260
aatgtatata aatgaaatca caacataaat tttaagatga tttggttgat gaagaaaata   52320
ctgaaaactt gtgggttgca gttaaagttg tgcttcgagg ttatagctgt aaatctgtgg   52380
ctctccacct tagctgcacc tagaatcact tgcggagctt ttgatgtcca agccactctt   52440
cagaccattt gactcagaac ctctaggggt gcaccccaaa catttgaaaa ctctccaggt   52500
gattccaatg tgcagctaag gttgagaatc actgctttaa aagcacatat tagaaaagaa   52560
```

```
aaaacattcc tctcaataac tcagaactgc taattaaacc taaagaagta gaagaaagaa   52620
aaatataaat aagagcaaaa attaatgatc taagggaaga agtacagtag agaggatctt   52680
aaaaactgtc agttggatct ttgaaaagag taagaataat attgacaaac ccctggcaag   52740
attaaccaag gaaaaaagag agaaggtata tggtatatgt agccaatgtc agaaataaaa   52800
aaggggagcat tcctccaaat cccgcagacg ttttttcct ccagaagggt atttgatgaa   52860
caactttatg tgaatgaatt tgaaaatgaa acagatggaa tgggaccatt aaaagaaaaa   52920
tatgcaactt gccaaaactg acacagaaga agtaaggagc ctgaatagtt ctgtatccat   52980
ttttaaaaca acactaattt aagttttgtc atagtgaaaa ctctaggccc caggtggctt   53040
cattggtaac ataacctttt taggccgggt gcagtggctc acgcctgtaa tcccagcact   53100
ttgggaggcc gaggtgggtg gatcacgagg tcaggagatc gagaccatcc tggctaacac   53160
ggtgaaaccc catctctact aaaaatacaa aaaattagcc aggcgcggtg gtgggcgcct   53220
ataatcccag ctactcggga ggctgagaca ggagaatggc gtgaacctgg gaggcagagc   53280
ttgctgtgag ccgagatcgc gccactgcac tccaacctgg gcaacagtgc gagactccat   53340
ctcaaaaaac aaaaaggaga atactgtgat catcttaatc aatggaggag ataaagcatt   53400
tgataaaatt taatacccat tcatttttaa aaaaatttct tagaaaacta gaaagagaaa   53460
cttctggaac actgataatg gaacaacata aaaagtcaac agcaaaccac tttcttaatg   53520
gtagaatgtt agaagtttga gtttgggaac aagacagaga tccactttcc acagtttcaa   53580
ttactcaggg tcaaccgtgg tccaaaaaca ttaagtggaa aattccagaa ataaacaatt   53640
tataagtctt aaattgtact ccattctgag tagtgtgatg aaatgtcgtg ccatcctgct   53700
tcgtcccacc tgggatagga atcatccctt ggtccagtgt atccacgccc ctatgctacc   53760
cacccactag tgtcttggtt atcagatcta aaaatcatag tatatgtagg gttcagtact   53820
atccatggtt tcacgcatcc actgggaggc tgggaatgta accccacaga ttaagcagga   53880
cactatattg ccaaatccaa aggatacttt ttggttctcc tcttcttgac ttctcggtga   53940
tatcaaccaa ctgactgctt catgagcgag actcttccag ccgtctctga cccatgctgc   54000
cctactgctg cttcttagcc tgcctattat gcaatctttt ctattcagcc tctcactgtt   54060
gatttttttcc cagaccttga ccctggccgt cttctcactc tgtgttctct gactggactc   54120
tgccttcccc atctgcagca cgacatgccc agaagtgacc aattccatcc ttcctcaccg   54180
gtgttcccca cctcactaac tggcaacatg gctctgctgg ttccaagcca cttctcttgc   54240
tttcactcag caggcactcc cttaccaggc cccagagctg tggccgtcag tgcactctcc   54300
acctccactc ccacccccac caaccctagc atcacagtct cgcctggacc ttttcacttg   54360
actttggccc ctccagaatc cacaaaaagt ccagagaaga cctttaaaga tcatgtatct   54420
agccccttac cttcctgttg tatctaaaat aaaattcagc gtcctgggtg aactggcgtc   54480
cgcttttcca tattcagctt gcactctttct cttccacatt tctgctacca ggaccatctc   54540
ctatgtcttc aaaagcacaa gctctttccc tacactgagc atttgtacat gcttatccca   54600
tttttctggaa cactcttctc actacccttc attctgtata ctttcatacc ttgcttgatt   54660
tttccagaca acaacaaatt ctccaattct ctgacaccaa gtcagttcag cacagttcag   54720
ttccattcag acactaccca tagttggagc aaatcctgca ggttaggggc tcagtcccac   54780
aagactgctc ccacttcaga cactaagcac aaatgggtcc ccaggctacc tcactgctac   54840
tgggccaact acaaattcag ggcttctggt gactgctcac tccaagattt gacaatttgt   54900
tagaacagct cacagaactc aggagagcac tatacgtaga attacagttt tattatacag   54960
ggtacaactc aggaaccgcc aaatggaaga catgaatagg acaaggcatg ggggtgggtg   55020
agcacagctc tttcatgccg tctctggaca agcctcctcc ctgcacgtgg atatattcac   55080
tatcctggaa gctcccccaa gcctcatcat tctgagtttt tttattgagg tttcattaca   55140
taggcatgat ggatgaaatc actttctatt ggtgactgaa ctcatctcca gccccttttc   55200
ccttcttgga ggttgggga tggagctgaa agttctaacc ctctaaccac ctagttgggt   55260
tttctggtga ccagccccg catctgaggc tctttaggcc cctctcccca tgagtcattc   55320
attagcacac aaaagacact cctgtccctc tgaaaattcc aaggggtaag ctaaattgtc   55380
tcccctttgtt cctcactcct gtagaactgt attatttttc atcgtggtat tcatcacaat   55440
ttgaagaata tattcatatg tttacttgct taatatctgg gtcggtagcc caagcttcag   55500
gggagcagtg cactgtctct cgttcactcc tatacacaca cagctttcagc atctagtaca   55560
taatctagta agatatttgt gggaagtaaa cttagactct tcagggtaag tgcagagtga   55620
ggaggaacca taggcaccaa cctctcaggg aaaaaagctt gtgtcaatgg cttgctttta   55680
agggatgtag gggctgtatt gtagctccag tagacatcct taaattcttg gagcatgtgt   55740
atggaataag atggccctgc tgccaagtac gtacagcctg gtgaggaccg gccacttcta   55800
ctggacattc agtccctggg cgaccgaatg acactatcag aataagtcga ggaagtactt   55860
ttcaggccca tggcttcttg tgtagtaaac aaggacagat ggcattttca tcacttctcc   55920
cttgtggggg ttgaacttct ggaaaagaat ccggaacttt ggtttttcta gacgatgttt   55980
actaactagc gatgataaac ttttagctaa gaatagagtt actttcatgg catgggggaag   56040
```

aaaatatttt cccaggacaa gttaaccatg tctaaaagaa tttatttagc ttttttttt 56100
ttttttttt tttttttggg ataggtctc tgttgcccag gctggaacac agtggtgcag 56160
tcatagccca ctgcagcctc aaactcctga gctggtctca agcagtcctc ctcacctcag 56220
tctcccaagt agagctggga ctgcaggcat gcaccatcat gcccagctaa tattttcttt 56280
tttgtagagt tgggttctca ctatattgcc caggctggtc ttaaacttct ggcctcaagc 56340
agtcctccca tctcagcctc ccaaggtgct gggattacca gcgtgagcca ctgctcccag 56400
cctggtccaa aagaatttaa aatggagcct ataaggaaaa ggggaaaggt atccagataa 56460
tcctaagcac tctgaagaat ggctcatata atatatggaa aaaagaacaa aagtcgggag 56520
gaaattcgat gattcaaatg agaaaatcaa tgtaaagtga gttagaaaaa atatttccag 56580
actccgggca cagaaaagta aactctaggt cctgacacag tctgttgaga ctgtgtcctc 56640
atgagatgct ttttccagcct caggaaggag cctccttaaa gagggaaata agagactctc 56700
ctctgcttgc ttttctgtag cttcttgtag ctggagcagc aagtagaagg gactgcggga 56760
ctggtgttgt caacagatct tcactgaata cagaagggcc ctctcacctt ccctgaggca 56820
tagagggaag caggcacaga ctgtattacg ggtggaccca agagaggttt ctgagtgaca 56880
ccagggtcct cgcctctcag cagcagcggc aggctcttga ccaacttaga agctgttgcc 56940
gttggcttca tgctcttcct tgtggatttg ctgcctcctt atgtttatct attagaataa 57000
aaataacaaa aatcaggatt atgcgtggaa gccaagaaag actgagaagg ttatttctcag 57060
acctctttac tggttcttcc tgttctcctc aacttctcat tgttagggtg gccccaggac 57120
attctcatct atctgtattc actctcttgg tgaatgtggc caggtttatt gcttgaaata 57180
ccatatatat ccttatgcct tccaaatgcc atgcccagcc cagacctggc agccagcctc 57240
caggttagaa tatctgccca ggacatctcc cctgggctgt ccggtagata tctcagggtt 57300
ctgcatgtct aaaatggatc tactgatatg tccagattcc aaagtgcttt tcacacctct 57360
gcttccacag ctctggtttg agccaccatc atctcaccta gactgctggt ctccctgata 57420
atgccattgc acctctaatg gttttctcag caaacgttaa atcacaacac tctgtttaaa 57480
aacctgcact ggctctttcc caatgccctc ataatgcttg cagtgcccca catgatctgc 57540
ccttcaccct caccctttctc tctgcctttg tctctggcct tacacacccc actccaaaca 57600
tgctggcctc ctgaggctcc ccaagccatc ccaggcacgg ccttgcctcg ggctttgcac 57660
tgactgctcc tttttccaga cgcacttttg caggcgtcca tgagccacct cccatacctt 57720
ctccaagtct ttgttcaaat gtcaccttct gagaaagaaa ggcccacaca ctctgaccat 57780
cctgctgtgg agtgccactg gtactcctga acccttgct cttagcatct ttttatttct 57840
gtagcactta cctacctttt ggcatgctct gtaatttgct tatttactta ctgtttgtct 57900
ccacctgctg gaatgtaaat tccatgggac agtaatcttt gctctgttta tcagtgtttt 57960
ccatgagcct agaacaggac ctgacccaat taaagtattg attaaaaaga caatgtaggc 58020
cagtcacgtg aggcctgtaa tctttgccaa ggcaggcaga tcacttgagg ttaggagttt 58080
gagaccagac tggccaacgt ggtgaaacct cgtctccact aaaaatacaa aaattagctg 58140
ggtgtgatgg cgcacacctg tagtccaagc tactcaggag gctaaaagag gagaatagaa 58200
tcgcttgaac ctgggaggca gaggttgcag tgagctgaga tcgtgccact gcactccagc 58260
ctgggtgaca gagcgagact gtgtctcaaa aaaaagacaa tgtagactgt cagaagagtt 58320
ggcagtgtcc tgatagcaga gaggcccaga gatgaaggct ttccaccaag tgacgatcct 58380
gggggggttg gaaggcaatc ctattgaatt gcctgttgtc agggcaccca ttggaggagt 58440
ctgcaccctt gtaccccctta gggaggaggc agtgagcctt gagataaggg cagttcagtc 58500
atcctagcat cttagagtcc ctctctccag ccagcccagg agggctgtgt tggtgtcagc 58560
agttgggtgc actgaggtgc cattcatgaa gctgacccca tcctacaaac gcagagctca 58620
gccagcaaga gagtaccttg atgacactgg cagagagcct tatgtctaca tgtagcactc 58680
tggaaaaata ccctgtagct agccccttta acaagttaat gagtaaaaat gcagttatag 58740
cagttatcta ttttttttact tgttaagctt attcttcctt ttaaccgcaa gtcagctgtt 58800
ctctttgcca tcactgtagc ttttcaaatc attccacacc tggtttatac atgagagagc 58860
attgaaatcc tctgcaacta ttaaggccac tgggagttat tttctcttaa tatttttaag 58920
aaagttgttg gcttgggttt gatcatttca aatgtgtttt attttactta aaaatatgta 58980
tttgtaaaaa tattgaatat acactaataa ttacacacat ttctttctgtt tgcctcttcc 59040
ttatgaaaag ttgattgtta ctttaataat taacttttttc accttcttag attttaccag 59100
taaatatctg ctaacttgaa taaacagcat gactaatatt tgttataatt atcttagaat 59160
tatttttctt atttgggata agccactgtg ggccattctg atgaaggcca agtggaaggt 59220
cagggctctc tctgaatacc acatgggaac gatacagtct agaggcctgg ttaggaagcc 59280
tggcttaccg aagttgtctc actcattacc tcatgagccg gcacattgtt gtgacaaagc 59340
atcagaaggg agcccggagg tggcatgtgg gagctgtttt cactgcctgg gcctgaggtg 59400
tgggcaacgg tgggagctga ttctgggggc tgggataata actcagtact ttcctttctc 59460
acagttgttt cctctctttg ctcctggtgg ctgctgtggt ttggaagatc aaacaaagtt 59520

gttgggcctc cagacgtaga gaggtaagct tcagtgggta aagattaaag aatccctgga 59580
agagcttttt ttccttcttt ttctcttaag caagtgggtt ttagctattt agtgataatg 59640
gacagacaga catctccacg gaaggaataa tgcagccctt tctgcagtcc atggttctgc 59700
agcatatggt cagtagactt agatgagtgc tacataaagt gtaattagtt ctgcaccaca 59760
gtgtcttacc ttccgaaaag gaaactctgg tattgacttg gaaatgccag ttttatcctt 59820
cagaccagaa cccaagtcct gactgaggcc agagatccaa gggcgtatta gcacagccac 59880
cgcgtgatta ggcaccgcct tcatgagaac ttgtcatgcg agagggaaat cagccattta 59940
agcatctcaa aaatttttca ttattcaagg aaagataaat gtgtgtgtag ttaagttttt 60000
aacttgagtt ttatttttaa ataagtcttg atttgtttcc agagcttcat tccaaaagta 60060
ataagcaaat atttacagct gacaaattta aataaataaa cttggttgca aattacaaca 60120
tatcaaatgc ccatcaatca atgagtggat aaagaaaatg tggggtgtgt atgtgcgtgt 60180
gtatgtatat atatatattt atatacattt gcagcaacct ggatggaatt ggagaccgtt 60240
attctaagtg aaataattca ggaatggaaa accacacttc atatattctc acttacaagt 60300
gggaactaag ccctgaggat gcaaaggcat aagaatgata cagtggattt tgaggactcg 60360
ggggaaagag tgggaggggg atgagggata aaatactata catcgggtac agtgtacact 60420
gctcgggtga taggtgcacc agaatctcag aaatcaccat gaaagaactt attcatgtaa 60480
ccaaacacca cctgttcccc caaaaaccta ttgaaataat aaataaataa ataaataaat 60540
aaataaataa atattttaaa aataaccacc attaaaataa ttacaacata aaaactttgt 60600
gtattgcaac tttcacttgc atcattactt tgcctttcat ttagtcatgc ctgtggcatt 60660
gttggcattg ttgctaatgg aaatgctcac gtgtatataa gatctagaca aagaagctgt 60720
ctggggtttt tttggatcta ctcatgcctt tttctatata aaaatgtatt tatagataag 60780
atttagaaca gaaggggaagt atgtaaaatc acaactcaca agcactcagc actgttgata 60840
ggatattcat gtctgaatag ggttaagaca ggctccagga tatgggcctc ttgttgtggg 60900
ccacagtacc accttttctg acccacataa agatgatgtt atcatagagg gaatgttgca 60960
cactctttat tattattttt taaataagtg gataacatat tcaaaggttt ttttagataa 61020
ctgtattact gatatacttt aaaagcctaa tgaattacgt gatgttctga aaaaaattat 61080
attttcaatt taatttaaat gtatatttat tcacaatgga gtaagaaaga agtaagaagc 61140
cacagtaaac cagttatcaa gaaaggagtt gaaaactttt gagtgctact ctctccaaga 61200
aggacattag acccagggag tttcaaggtt gagatgagct tatggagatt atgatagcct 61260
gttcctccct gagtgcttat gagaaataat tgttttctaaa atctgtaaag caaaaggaca 61320
gatggaaagc ttgaaagagt ccgaattgat tttatacaca taaatcttgg taccaaaacc 61380
tgacaaaggt agcaccaaaa tacaaagggc agctgcatag tgaatgtatg tgcagcagtc 61440
taattgcagt gtaatgaaag agtcacttaa taccagaaaa cctattagaa tatatcatgt 61500
caaaaaaaga atatatcatg tcaatgggga aaaaataaca cctgaattct tcctagtggc 61560
ccagaaatca tttcgtcatt tattgaaact caatatccat tcctaatttg aaaacaaaac 61620
tcacagtaaa atcaaaaata ccttttaac gctatgaaga atatctggat aaccagcatc 61680
actcatgata aaacaaacaa acaccagagg ttgtatccag gctagttagt tttaacaaga 61740
gctgacatct gagcatttaa aaattccagg cactgagttc taagtggttt tacgtagatt 61800
aactaatcct tatctcaaac ctatgaaata ggtattgtcc ctcgttatgt tttatggatg 61860
aggggactga ggctcagaaa ggtgaagtga cttacaccac atagttaact aagaggcaga 61920
cgaggcttta actagggact tctgtcttca cagcccaagt tcgttatctt cgtgtaatcc 61980
tacagtcatt cagctttgtg ctagatgttc tagactgtgc actaagtgaa agggcactaa 62040
gaagtgttgt tactattgga aaggaaacaa aattattatt ttcatataaa gttattaaaa 62100
caatgtagta gagatttgcc tgcataaaaa tgaaggctta agtatatcaa aaaataaatg 62160
aataacacag aagctaaaca atcaactgga aattgtttgc agtgtgcatg agagaaagta 62220
agatgcacag cctacaggaa aaagattaaa atatatatat gtgtttagta tggagttggt 62280
catctaataa actatgcttt tacccgtgtg atttggaatt tctctgtaac tgtgaagctg 62340
accattcaga atatatttca tcatttttaa aatgtcagcc attatttatt ccctctcaga 62400
attgtagaag caatgatttg atgttatttt taaaaacaat agtagtagcg gctgacgctg 62460
tttagtcctt gctacacacc agccccggtt ttaagtgctt ttacacatgt tgcctcctga 62520
accctgtctt attgtgaccc cagcacttaa gcacagaccc caaggagcat tgctgcatat 62580
attagtcgag taaatggacc tacagcttta aaaaatgtaa gaatgttggt attttaagaa 62640
aatatttata aaaatgccct tctagaacag agccatatct atccaggcca agattctgtc 62700
ttctacagta gttccaagga ggcagtttga agtaaggcct acttgtatcc caaggcataa 62760
cctcaaagct tcagcatcat gcccagaaag atctctaata tccttaatga tatgtgaacg 62820
gctgttcacc atgtgctagg cgctgtgctg tagtatctca tttgatccca gtgacaacct 62880
tatgggctag gaacacattt cagagggagg acacggatgc ccagagactt caaacaccct 62940
tcttaaggtc acacagctgt agactattgg agcaggagtt cacatcaagc ctccctaaat 63000

cccgagcccc tgtttgtccc tctactctgc aaaatttcac atttgtttgt ttttagctta 63060
taccacctct ctgaaggaag ggttctttca gttcctatct gccgtataat gaggcatagg 63120
tttttgttgt cctgtgaatc cttggtgcca gtttcagtag gaagaaagca agcctgactt 63180
tagtagtaga aatacgagga gatagggcca caccatttta tgtatttgac aagtcgacgt 63240
catagcatta aatccacagt actttattt ttatctttat tttcttattt tactttaagt 63300
tctgggatac atgtacagaa catgtagatt tgttacatag gtatacatgt gccgtggtgg 63360
tttgccgcac ctatcagcct gttatctagg ttttaagccc tgcatgcatt tggtatttgt 63420
cctaatgctc tccctcccct tgctccccac ccctgacagg ccccagtgtg tgatgttccc 63480
ttccctgtgt ccatgtgttc tcatggttca actcccactt aagagtgagg acatggagta 63540
tttggttttc tgttcctgtg ttggtttgct gagactgatg gcttccagct tcatccgtgt 63600
ccctgcaaag gatatgaact catttatttt atggccgcat agtattccat ggtgtatatg 63660
tgccatgttt tctttatcca gtctatcatt gatgggcatt tgggttggtt ctaagtcttc 63720
gctactgtaa atagtgctgc aataaacatc gtacgttaat atgtatctct gacaggggct 63780
tttaaaaaat ataaggacaa tggtgttatc acatccaaca aaatttagta atccctaatg 63840
ttatctaata tcaagtctaa aaagtatcat tttggacttg atttgtttga atcagggagg 63900
atgaggtgtt tttaacatgt agcattaact aataaaaccc cttcagtact cattccatta 63960
atggctttgc catattattt atcagcaact tcttcgagag atgcaacaga tggccagccg 64020
tcccttgcc tctgtaaatg tcgccttgga aacagatgag gagcctcctg atcttattgg 64080
ggggagtata aaggtgagaa tgtgactcag aagtccctat aacttgactt tttaaaactt 64140
aggctcctaa gtctgggaaa ccagagagag caaaagccct attccattac ctcctttttt 64200
tcctctcttt ctttttaaca ataagctaaa acctgaagtt gctgggtact cttttgcttt 64260
tgtttttcaa tctttgtttc atgtcgctga gcagtcttgt gttcagggga ttttaaaatc 64320
taaatgattt gtctgctttt cttttaagta ttctgtggca tacaaaactt ttatttgaaa 64380
agagctacat tgaacatcga atcattgttt ttttgtttgt ttgtttgttt gagacagagt 64440
cttactgtgt cacacaggct ggagcgcagt ggcatgatct cagctcactg caatctacct 64500
cccgggttca agcgattctc ttgccccagc ctcctgagtt gctgggatta ccgatgtgcg 64560
caaccacgcc cagctgattt ttgtattttt agtggagatg gggtttcacc atgttggcca 64620
ggctggtctc gaactcctga cttcaagcaa tccacccacc tcggcctccc aaagtgctgg 64680
gattacaggt gtgaaccacc gcacccagcc tatttttctt tatattttgg ggaatttttt 64740
aagcagcaaa atgataatac actgtgtatt aatactctgt ggaaaatatt tatcaccccc 64800
ctccccaaaa tgatgaagaa aatggtaaga ctttctcctt gggcaaaatg atggaatatt 64860
taagatacgc tggagaaata gctatgtatc ttgaataaaa catacttact taaaatgtta 64920
ctgagctcac aggaagtagg taaaatctcc agggaatact ctccttccct accctaaaaa 64980
gaacaaacca taaaccaaaa ccagaaccat gatttgtcct aagtggttcc agatggtaaa 65040
cacaacgccc acctgaatag atggaaatcc tctctataga aaaacatctt caattcagcg 65100
ctgttgaagt cccacagatc aagatgaagt aattaaagat caccagggac aagaggcaag 65160
ccgccataaa taagagtagc agaaacaaca gatgattgat gtggacagga ctccaaatgt 65220
tagaattgaa atctaaagaa tataatataa ctgtgtatga aatgtttaaa gaaataaaag 65280
atgaaatcat aaagatgaga gtcaagtatg gccaagcaga tctgaagaag aaccaaatgg 65340
aacttctaga aatgaaaaat atacttgttg aaatttttta aataaataaa ctcaatttac 65400
atgttaaaca gcatatcaga cataagagaa tttacaaagt ggaagatgaa tctgaaaaaa 65460
gtacgcagaa tgcagctcag agagacaagg agatagaaag tacaatagat actaagaata 65520
tggaggatag aatgagaaga tccaactcat atatatttcc agaatcccag aacaaaggag 65580
aggcaatatt cagaaatgat agctttccag aactgatgga aaacatgaat atacagattc 65640
cagaagcaaa acatattgta agcatgatta aagaaagaaa gggaaggcag gaaggaaaga 65700
aaacaagttg gatttctcat aatgaaattg tataactcca aagacaaaga gaacatctta 65760
aaatcagcca gagaaaaagt atcacataca acgtggagaa actgaacgtt agtgcactgt 65820
tgatggaagt ataaagtgat ggagccactg tggaaaacag taccactatt ccccccagaa 65880
ttaaaagtag aattatatat gatctggcaa tctgggttta tacatagaag aactgaaagc 65940
agagtctcaa agacatattt gaacatcagt gttcttggca gcattattca cagtagccaa 66000
aaagtggaag caggcccaag tgtccatgga tggataaatg gataagcaca acgtggtcta 66060
tgcatccaat ggaatgttat ccagccttcc aaaggaagca aattctgacc catgctacaa 66120
tgtgatgaac cttgaagaca tactaagtga aatactccag taacaaaaaa ataaacattg 66180
tatgattaca cttttaagag atacacttgt ggtagtcaag ctcataaaga caggaagtag 66240
aacagtggtt cacaggggct gggagaaggg gaaaatgggg agttagtgtt taatgggtac 66300
gaagttgag ttttacaaga tgaaaagagt tctggagatg gatagtaatg atggttgcac 66360
aacaatgtga atatacttaa taccactgaa ctgtacattt ttaaatggtc aagatggtaa 66420
atgttatgtg tattttatca caatttttgt taaaaatggg aaaagaggcc gggtgtggtg 66480

gctaacacct gtaatccgag cactttggga ggccgaggcg ggcggatcac ttgaggtcag 66540
gagttcaaga ccagcctggc caacatggtg aaaccccatc tctactaaaa atacagaaat 66600
tagccaggca tgatggcaca catctgtaat cccagctact tgggaggctg aggcatgaga 66660
atcatttgaa cctagaaggc agagttcaca gtgagctgag attgcaccac tgtactccag 66720
cctgggcgac agaacaagac tctgtcgcaa aaaaaaaaaa aaaaaaaaaa aaaagggaaa 66780
agatcacctg caaaggaatg acaagctgac cgctaacttc tcagaagtca gaagagagtg 66840
agagaatgtc tttgaagtac tgaaagaaac ctccccacct agaatagtgt gcccagtaag 66900
caccttccga gaacaaggat gaaataaaga tatcttcaaa ttagaataaa aattgagaat 66960
ttgccaccag cagacctgca caaaagaaat gtctgaagga tgtgctaaaa tgaaggaaaa 67020
ttacccccag gaggatagac taaagtgtaa gaaagaatag tgagtaaata aaagtataat 67080
catatataga aatctaaaca aacattatcc tggtaaaata atatttgtgg gttaaaaaat 67140
agacaagcct aaagtattga acaacatgat atatgtcagc agcatatgac acagttagtt 67200
gctccttaaa acatttttctt gatttttcttc caggacacca cacacttgcc ttctagctgt 67260
tcttgctcag tggtctttgc tcagtcctct tcatcttttg acagtggtgt gcgtcaggcc 67320
ctgccttttgt ccccttcttg tgtcttttac acccacttct tcagtgatct tcactatcac 67380
aggtttaagt accatgatcc tctcacctgg actgctccca tgagcctcca acacaaacat 67440
cagttgccta ctcagtgtcc ccacttggat atcttaacat ggccatggcc aaactgagct 67500
ttggatgttt atttctcaga cttgctcctc tgacatacct tccgcctttc agcacataac 67560
acctccatca ccctagttgc tcaggccaaa atcgtggaat tgttcttgac tcattcttga 67620
tgtcatgttc tcattggaca gccagtctat cagcaaatct tgactccgta ttcaaaaatg 67680
tttcccagcc actgtgtccc atctctgcca ctattcccac ttgatctagg ccaccgctgt 67740
ctctcacctg gattcttgca gttacttcat aactgatctc cctgcctctg ccattcaccc 67800
atctagtcag ttccttgtgc cacagcagag tggtactgga aattattttc ttcagccaaa 67860
ctgaagaaac tgatgacatt tgtgggtata gtcagcagaa ttctaaaggt ggccctcaag 67920
atttccatcc cacgtttatt cagtcacaca ctactctagg tactgctaga gggatttttgc 67980
agatgtaatg aaacaaggga gttgactttа agatacagaa agtttctctg gctggtggca 68040
gaaagaggaa gccagagaga ttggaaacat gagaaggact tgacacacca tccctggttt 68100
agagatggag tggccacaga agttttttтg tttttgtgag acagagtctg gctgtgtcac 68160
ccacactgga gtgcagtggc atgatcatgg ctcactgtag cctcaaactc ttgggctcaa 68220
gggatcctcc ctcctgggtc tcccaaagtg ctgggattac aggtgtgagc cactgcgtaa 68280
gccctgaatg catttcaaag cagagtcttc cccagagtct ccaactaaga gtcccatcca 68340
gctgacaact tgacttcagc ctgagagacc tcaggagata gctgataatt ccccagaact 68400
catggaagac atgaacagac ctgtctctct cggcagagaa ccctacagag cttgctggga 68460
cttctgacct ctaaagctgt gagataataa gtgggtgttg ttttaagcaa ctaagtttgc 68520
agtagtttgt tacactaata taagctgggt gcggtaggtc acacctttaa tcccagcact 68580
ttgggaggct gaggtgggag gatcgcttga gcccaggagt tcaagacctg cctggacaac 68640
atagtgagac cccatttcta ttctttaaaa aaaaaaagga aaggaaagaa aaagagaaga 68700
aactaatata ggggacaaat ctcatctaaa ggctgcaaca gaagatgaaa acatattttc 68760
cagagccaaa tgcatccaga gagtagacaa agaatctact tggtcagcca acccagcttt 68820
tacaagcttt tacatccagc aggcttgtct acttagtgtc taaaggacag acaaaatага 68880
atgtttttta agtctccatg atatctgcat ctgtgtttga gccaggtatg cagaactatc 68940
tgacaaatct accaagcact caccactgcc attcctgtga cctacagtta tgaattagaa 69000
tttcaaatcg agccaaagta cagcatccag aagaaaccca cttggcgtgg ccccttccct 69060
acagttcaag cagcctctg gaaggggact gcgagacctc agtggaaggt agcaagcagt 69120
accacccgtg tcactggtgc tcagagagta ctgttagctc tctcctgccc tttttcatta 69180
tcttaaaaac tgcaatgtac ctttttata tacctgaaat tgatggttct tataagcaca 69240
aatgaccgtt aagttgtccg tatacattaa agcttgagta tcacttaagg taattttgtt 69300
ttctttgcc agactgttcc caaacccatt gcactggagc cgtgttttgg caacaaagcc 69360
gctgtcctct ctgtgtttgt gaggctccct cgaggcctgg gtggcatccc tcctcctggg 69420
cagtcaggtg agtagatgcg gtccagcgaa agacaccttc taagcatgtg agggagctaa 69480
gcatgggata cttcccttтc ctagagaaca aggttataaa ggtgataacc aacagtgcct 69540
gcccatgcca tggcaaggat tcagtgagat aacccatttt cacctatatg cccaaaactg 69600
ttttcccgag gtcatcgtcc cttcctgggg ggacgtcccg ggacctcctc accgttctgg 69660
cctccccagc ctctcagtgc tcgtggatgc ctctgaccac accttccttt gctgtcggag 69720
tttctggtcc ccctttgcct ctgctgctct ttccctgtct cttttgccct gtcctgcccc 69780
tgaatctggg tgtgctccct tcaccctgca tgttcttcct cagttgcctt ctccactcca 69840
caacttccag ccatctcccc tgggctggtg tttcttcaat tggtatttct agccctcctg 69900
catttctttt gctttttcac tgttttaaat ataaggcaca aacacaacga taacataaag 69960

gaaacgtctg aaaatccacg cacagttctg ctatcccaca acccaccaat tttcattgtt 70020
ctgtgttctt tccagccctg gccagcaatt tagttgaaat gattgtatag atctaatttt 70080
tattctgctt ttttcatata actatcttaa acatttttat agcctactac ataatatttt 70140
accaatgcat gtgacacttc tccatcaaat atatgaatca tgattatata aacttctatt 70200
ttgaagacag aaaatatgga atacagtttt gaaagtatct cgcttaatta cagagtgctt 70260
tggaggatgc ctcaatgtga tcattttaga caactttcag ttgagatgat tctggagtca 70320
gggttacctt agccagagag caccctgtgt ctggtggaaa ggctgcccca ggatactggt 70380
ccaggccctg agctccactg tcccttcagt gcaccctcag acccagaaga tcctccagcc 70440
cagctttaga atggttagga tctatagtat cttcacgagg gaggcctttc gacatggctc 70500
ggccaggatt cattgtcttc atctcaccta gggattcctg tgagttgagc ccctaactcg 70560
gccttgcctg tgttgaggac aggacaactc tctcgtctgt cactcaagtg cagtttgtgt 70620
ctcctgccac cgcccagccc agcaaacagt ggctggtgtg ccctgagggc agggtggcgg 70680
ctggggcggc aaggtgacag gtgtgcagcc ctgtagcctt tcctgctcca gcctttgcct 70740
gacatgcccc aaccacctga aacacctaat aaaggtctgc tcaatgcttg agacccaccc 70800
aacagtgggg ccgtccttgc tgccccttct gtaccccctg ttttaagtgg tgcccttttc 70860
taggctccca gagcattccc cactgtgtgc caggcactta cagctgtcta ccccacaccc 70920
cactccccct cacaggctca acaaggcaag taacacgctc cactaacaca actcctggca 70980
ggtctcagca gagctccgag cctgcgctgg ccatttccca cgtatattag gaatccagct 71040
cccccagaac cgtgccttcc ctaatggatg tcagattact ccgttatcaa tacaggaagg 71100
aaaatgggat tgcaagtccc caaagcaaag tgggcggcgg ggcagtgatg agcataaagg 71160
gtagttgcta ttgatcgtgg gttgctgcgc gccagatact aagactttat gcatgccagg 71220
tactaagact ttgtcagttc actcattgat tcttcacact agccctgtac tactattatc 71280
cccattttac aaatgaggaa actgaggtgc agggaggtta aagaaccttg cttattccaa 71340
agcctggccc cagagcctgc cctgcctgta tcgtggtatg gaatggaagt gactaatgct 71400
gactgagtga tagggggtgaa tctgaatctc gtcataaagc gtgctgctat ttctcggctc 71460
cttttggagg aaggcaggag aaattgggca cttagcacac gtctacaatc tcatttatat 71520
gttcccacca ccaagcagag cactgtgctt ggttgatgtg ctgaaaagca aactgcacct 71580
tttgtgtaaa aagtagggaa aggagaagaa tgtgtatttg tatttgcata agtataccct 71640
caaagaatac ataaaaatta gtgaaagcgt ttacccagat ggaggggaag gcggagggag 71700
ggtcagggtg gaaggaagac ttttccctgt gtatgtgtac ctttttgggg gttttttgtt 71760
ctggtttttt ggtttgtttg ttttgcacca tgggattgaa aaataaatgt ttaaattatt 71820
ttttaaaaca aaataaaagc cagctgctcc cagcatatgt tctctctgtg gttctcccaa 71880
ggtcttgctg tggccagcgc cctggtggac atttctcagc agatgccgat agtgtacaag 71940
gagaagtcag gagccgtgag aaaccggaag cagcagcccc ctgcacagcc tgggacctgc 72000
atctgatgct ggggccaggg actctcccac gcacgagcta gtgagtggca caccagagcc 72060
atctgcaggg aaggcgtgg cggggaaatg gctgtgcggt gcgggacgga agactggaaa 72120
ccctcaaagc atctgactca cctgcatgat cacaagcttt ctttgacggt ttctcccatc 72180
cgtgttccag catctaacct tttacttttg catagggaaat acttgattta attacaggtc 72240
cagggatgag ctgatggttg ctggaggagg ccagtgtaga gccagtgaga gaactaggaa 72300
tgacactcag gttcactgtg gaaaactgtt cttgggactg tctcaactgt gcaaaaaaca 72360
aaagatggag tgtttacaag tagacattcg tcatcagttg ttcttgaaca tggtctttta 72420
aaaactagtc agatgaatta acttgttttc atctgaagcc tgctatcttt tttaaaagat 72480
gtgctattta ttcttgcacg atttaggcaa ttatctctct tccaggggagt acctttttt 72540
ctagttgaga attaataatg gtccatctct tttgatcata tcaagctagg atagaagggg 72600
ggctatttta aatgtcaagg tcagcagtgt tactttgaat gtaaactggt ataatagtga 72660
gttttctata gtaacttgat taatttagtc ttaatccatt tgaaactctc tcttcctttc 72720
tctctgcctg tccctctcct tctccatctc accctccctc tctcacacat acacaccaca 72780
acacatacac acaacactaa gtgcctagac tttaaataga tctagcaatt ggaaagttag 72840
taagcctaag tttttacata attgcattcc tacattcttg taaaatttaa atagctacca 72900
ttggcaatct gcttttttttc taaaatctga tttgcagcca ggaaagaatt ttctcaccca 72960
aggaacattt gatctagcag cagggatgag aggaaagcag aaatgaatga actgtgaaag 73020
ctcctgtttt tattatcaaa aaggacactg tcaagaaggc gcccctgcc cccaccccg 73080
tgtcacccta ggcctgataa gcgatcagag gaaaggactc attcatgtca cgcttccttg 73140
agcagaaaag agcactgaga gcacttggga cccctggatc agagagcatc tgtgtgtcct 73200
gcagcctcct ctgaacttgt ggttcattct caggctgggg tggactcaga tgccaggaaa 73260
gggacagcct cccattgtca ggcagaagct gcccaaagcc tggagaagga cttgtttgcc 73320
ctctttcccc caggaggggc tcgacccacc caccctccct ctcagaccaa ggtggtggct 73380
gtgaggaggg cagcaaatgc tgacaaggat gaaaagcaca tggaaaaaaa tggacgagga 73440

gggaaaactc tgccaaatgg aaaatgacca aatttaagag ggtgggacag tcccctgctc 73500
ctctcccaga gggcactgct tggaaattgt gttttcccca tttatggtgc tctgtattct 73560
ggcattatgc agcagcctcc cagaagctct cttctgcttc aaaacctggg atctctggca 73620
ttaccctatt gggatggacc gctggacagc aatgctcgag tttgtgaatt tggagagata 73680
ctcaaaagag ctaaaactgc agcattttac ctttaaatgc agtgcctaga gagagagtat 73740
tgtctcttcc ccaacactaa ccccactccc atgaagaatt gcctggaaag atgttttcaa 73800
ggaatttgaa ccataaaaca ctatctgatg cacagaacac ctctactttg agactcacct 73860
ctcataaagc ttctttttca cattactgtt aaagaccaga cgttctagaa aagacccctc 73920
ctctcatgag ctccccatc cctgctacag aacacagcac ccatggcgcc tgcagtggac 73980
tggccccttа attcccacag gccccccag caaggccaaa gggaggcccc tgggtattgt 74040
cctcctacaa ggaagatcct ctttgtttgt tcaaaggacc agttttccta ggccaaagaa 74100
gtctcttccc catgttagtc ctatgccttg aaatatcatg caccatgacc cacagccatc 74160
tggttatgtc ttattttttt cctaaaagat aatgtttatt tttaaaaagg aaggaaggag 74220
caagtgaagt ttcattctgc tccagcggtg gggaagccgc tgaatccacc tgcttctcct 74280
ttgcaaccga cagcaaacag ctttctccgg cctcagggca gaaaaaggga atggcaggga 74340
gtaagaggcg ctgggctcgg agcctgtttc caagaaggaa ttggttgtca tctggcagtg 74400
ttgcgcgtca caagagagcc tgtatataaa ttaaaatagt caagacaaca ctgaccttgc 74460
acttgtacat aactatacag tagtgtccag aatgttcaga cattcggagt gtacataaaa 74520
cagaaaaaat cttcatgtat ttttattaaa tataacaatg tctgagtttc acctaagatg 74580
tttttgtgcc atatgctgga tatccaggtt ctcgccaggc cccgatacat gaataacaaa 74640
cccaagaaac gcatccccat tgtgtgatgt gttcagatgc atctggcacc aattaggtat 74700
ttcttaaaac aggactcatc tgtcagagtg cacatgaaaa atcaggcagg gaatcgaaac 74760
gacagcggctg gaggagactc aggaagcaga ggcgtcccctg ccgctgccct tggccctgca 74820
agcacatcat gaccctttct ggcagcctct tggtgctctg ggtagtgagg gatgaccagt 74880
cttgtcctga gaaatgtttc tcttagtctt taagttcaaa gactaacctg tagcaatcag 74940
actttccaaa agggggttct ccatttttttg tagttttgtc taaatttttа atgaccattt 75000
cctggaatca gtttattata ctgaaaactg ggggtgggag taggagacta gtttgttgat 75060
aaatagttcc catttccccg tggagaattt gacataccct ggactcctgt gtgcctcctg 75120
ccatccctgc acacagcctg gggagaagcc tgtgcctccc cgtgtggaga gaaggcaacc 75180
ccagatcccc tgagctaacc cggaggaaag gcagtcctgg acagaagact gtcagcagaa 75240
ggaaagtact ggactacccg tgggtaagtc ctgccattca agactggaga cacctgggaa 75300
ataaaaagag cagggcactg ctggtgggaa gaggcatttt accttccagt gcaaatcctg 75360
ctcctttgat ttaatggggt gtactggggc caggggctga ttcacttcct tgggagatgg 75420
tggtgttttc atgaacatct ttgatccttc catttcattt attcatccat ccattcaaca 75480
agtatttgct aaacactaac ttaagctaat gctagggtag tgactgagat gtaaaaatag 75540
attttagaat taaaacaaaa tccaagtcct cacaccccctg tcatcccagg agatcttcc 75600
ttgtggtggt ttctgtgaga attggccatc ctgaggacac agccaggacg gcagaggcct 75660
cctggcctca gggcatgccc tgcctacctt gtgaaatgtt taccccattg accaaacttg 75720
gctccagcca ttgcggtggt ttctagatag ccaggcccac caagagatat tgcccctgа 75780
tgagagtcaa acaccctgcc tacaaggaga tgttttgaaa tggagaggaa aattggcacc 75840
tcatctttta aaggcagtaa tggaattgat tttcagtaac tgaatttgtg cacaaaacat 75900
tctaaacact agtgaagcct gtttcgttga actaattaat tctggctctg gaaatgtttt 75960
tgttttatag ttatttacga tttcgtttgt ttggattcaa gcttagtttg ttaatatgta 76020
taatttagca tctattacac tcatgtaaat atggagtaag tattgtaaac tatttcattg 76080
cggggattgt gggtgttata catacattta ggactgcaat tttttggtat ttttttgtat 76140
tgtaaaataa cagctaattt aagcaggaac aagagaacta agggaggtct gtgcatttta 76200
aacacaaatg tgaagaactt gtatataaac aaaagtaaat actataatac aaacttcctt 76260
ctgaaataaa agtagatctg gtaaaaatgt ggcttttgtt ctgagtgttt cattttgatt 76320
ttgcattgtt ttgcctatat ttacattttg gtcattagaa ccttaaggga aaaaaaaaag 76380
cgtttaccag ttttcagact gcgtcagagg gagcacttga cagttaacgg aggtgagggt 76440
gaaaacccct ggcaggtacc tcagacagcc ctccaggcag cttgtgagcc acagaccttc 76500
cacacagcct ttgtgtgcct acagggcagc tgggcccgtg ggggcaggga cagatctgag 76560
cagtgaggta tggacagccg tctcactgct ccactaacca caccactgtc tccagtggtg 76620
ctgttatccc tccactttgc gctctcctca caggctcctg aatgtcctct aggttgtctc 76680
caaactgcta aatctcaggt gtgctgacag gtctcagccg tggccagtgt tttcctcggc 76740
cttgaagttt tgaggaagtt actcccattg gcaaggcctt gtttgggggc ctcctgtgtg 76800
tcctgccccc ttttatttgg ctcctgccct cagaatgggt cagagtcatg tatttcagtg 76860
cagagtgcag attcccagtg ctagcagttc cttccagaag gatgaggtca ttgaaagaag 76920

gaggaaacac aagacggtca ctcctgtagg ggaagatggc agggtactag ggccagggcc 76980
tgaggtgaag gcaggagcct ggaggaggcc tgcctaccag agctcaggtc tggcttaggg 77040
agggaaatgg ctggactagt ggctgcaaac aagttgagaa ggaccttgaa actcttccag 77100
ggagggttat gagagccacc aacagtaaca ggatagaaac cctgtgattt ggtggtactg 77160
tggcagagac aatgctgtgt ttaccaaacc tactgggccc acagctcatc atttcccagc 77220
ctccctgcag ttaggttggg accaagctaa gccatggcca aggaaaggtt ggaagaagtg 77280
atgggcacca attccaaacg tggcacacaa atgctcccac aggggactct cctacggatc 77340
acatgttaaa gactggaggg actgtgggtc cctgagtcac cccttagagg ccggccgcct 77400
gatcagtaag agctgtgctg gcctttgcat cactggaaag caaactcact ctgctgatcc 77460
actgagattt ggggctttgt tacactagtt agcttttctt attctcacta atatacaaat 77520
cagcactttg aagtgcagtg cacatgtaac caaacccctta agtacatggc actggctcag 77580
cgtgtggcca ggtggcgagc agtgataaga caggtgcagc tggcaggaca actgaggtcc 77640
ctgccaggcg gagcaaaaca tctggtaagg ccgtttcact cgataactcg gaaaacaaac 77700
tccatgtctg ctgacttttt gacttgaggg gaataaacaa caacaacaac aacaaatatg 77760
tgttgattgt tactggctgc ttttggcgag gcatcacgag aaaaagttta cttcaagaaa 77820
gaattagcca gtttacaagc agaagggaaa aagatggaaa gatgttaacc agggccttgc 77880
aattctggaa aagccaactg cttctagtct ccaaccagta agaggtgcag gtgagcaaca 77940
aaggccccat gagacttagt tgaacacagt gactgggcct catggtgacc atccaatgaa 78000
gggtgtggtc ttcccactgg agcatggaaa ctgcaaagcc accagcttga gggaggggca 78060
cgtggttaag gaagcaaaga aaaagctgac atgagaactg tttccaggaa caaaccatga 78120
atgtagtcac tgaccctgga cctgcctgga aataaataaa gatgtagtaa atttaagaaa 78180
ccattagcaa agccttaaaa aaaaaaaaaa aaaaaaaaaa aaacggtggc aattgaggaa 78240
gtcttaaatc caccttcagg caggaaaatg gttgtgaaag ctgtgtccag cgagggcttt 78300
acaagctcag atgtgggccc aagagcagaa ctgggcctga gcgaggactc cccccagccc 78360
aggacagggc ccagcaggat tgcaaaaaca ccgcagagca gcaattgctg catctgcacc 78420
cgctccttcc tgggtaggag ggcctaggag ggtgtcctgc ctgttctcat cactacctgc 78480
tgggtgggag gtggattaag ctgtcttgtt aattcaggat tgtggacttc aaagagccac 78540
ctgagggagg ctgcatcacc tggaggtctg ggcgggggtgt gacctcgtat tgtcccccta 78600
ggagagggtg cctgtgaccc atgtaggaga ggaagcacaa aactggtttt ggtgatcaga 78660
atagcaaact gggccagatg cttaccacac atttcctctt cctgagtcca cagcttcgac 78720
tgcatggcct gggcccgtgg catctaccca gatgccttgg gaccagccct caccaatgat 78780
gtgtcatttc aaggccattc acagtgacag tgtctcctcc actgtctcca tcaaccttga 78840
aggcttatgg tgaagatggt aatacaacag gattgaagga gactgggtcc ctgaatgact 78900
ttgtggaaca gagcactata ggccaaaggt agtagaatta ggtatcttgt tttatgctgc 78960
ttaagtgaat taattaattc tctagattta ttcacctagt tattcaacaa atttttattg 79020
agcacatcag ggctagggca ttgtgtcagg atcagagatt ttgcaatgaa caaaacagaa 79080
aactccatgt cctccagggg agttgataat aaaatgtcag ataagctctg tgaagaaagg 79140
taaaagtagg gttaggggta gaaagtgctg gggggattgc tacttaacat agtgtggcca 79200
ggggaagcca ttctgctaag gtgacagctg agcagaacga tgagtggagg gggcaggaag 79260
gaatgtggag gtctgggaga agagcattcc aaacagggat ggcaggtgca gaggccctga 79320
gggggcagca tgcctggtag gcctgctgga tatttctgag aatgaaaaag tccattccca 79380
gttgttttgcg tggagaacct aacccagtta taaacacaaa gtacttgaga gctggtttaa 79440
tatacagcca gctttccagc agtgcaacta ctgtgtacat caagggaaaa ctgaacttcg 79500
ttttccttaa aacttatcat cagctggtca tcatttttgac aaattctgtc aacaacagca 79560
gtgtcattcc tggcatctgt atgggtcacg tctgaacaga cacacgccct gcagccctgc 79620
aggtaccagc tgtataacaa gaactccctt ccaccctgtg tcctggaaac aagaaagcca 79680
ttagaccgga agatcccgat ggctatctca aatgtgctgg atggagttgc cagggcccac 79740
tggcatgccc tgtaagcctt tccttccacg tttggttcct gcccctgaa gactccattt 79800
ctgagtttgt gtgtgtttta ctttctagtg tgtgtcctca tcttaatttt tctctctctc 79860
ttctgccttg aactgaaggt tcgcttgggt gtggagagac aggccccag cagagcagct 79920
tcccgagaca tcctccgatc cagggcttcc cagcagcccg gcaaggcagg gctgtgcctt 79980
tctgcttcag ctcacaagca tgccaggctc actggcaagc tgctgtctgg ttgagggact 80040
gctcctaaag ccctgcacag cccctgtcct cctggccctc tggaaattcc acccccgtgt 80100
ccacatttca tgcaaaaatg agctggttct gtgagcatgg cccggcctga ctcgcttagt 80160
gggcggtaag tggtttccac ttcaaccttg cacctaatca ccgggctcca caccaggatg 80220
gacattcatg agccgtgaag tttccagtaa taaatccaca gatgcttcca gcacctgcct 80280
tttcgcatca cctccactcc cagccacctg ccaggcaaca ggtaacagag acccagtcac 80340
aggagggcag tgtgggggca ggactgcagt ctcccaaagc ccatgcacaa aaccgacagc 80400

gccctggcag gacaaggagg ctgacattca gatgtggagg aacaaggcat gacccattcc 80460
tggtcatggg ggccacagct ggactcagcc ttgaggcttg gccagactta acaccgtgta 80520
taaaccagga ccttttagg tagagtaatg gaaaccaaac tctaatgatc ttagacagtg 80580
ctattagtct cctggagctg ccagaacaaa ttaccacaac ttcagtgtct tgaaacaaga 80640
gaaactgatt ctcacagttc tggagaccag aagtctgaaa tgcaggtgtt gccaggctg 80700
tagtctctgg agactctagg ggaatctgtg cctacctcct ccagcttcca gtggctcctg 80760
acattccttg gcttgtggct gcatcacccc aatccctatc tctgtcttcc ccttgctttt 80820
tgctcaaaat gtctgtgttt agtttccctg tagacacctc tgcatcactc tcataagatg 80880
cagaggtgcg acatacaggt gttgagagcc cacttagata atccaggata agctcctctc 80940
aagatctgta acttggctgg gtgcagtgtc tcacacctgt aatcccagca ctttgggagg 81000
ccaaggcggg aggttcactt gaggtcagga gttggagaac agcctgggca acatggggag 81060
accctgtctc tactaaaaat agccaggcgt ggtggcacac acctgtggtc ccagctactc 81120
aggaggctga ggtaggagga ttgcttgagc ctgggagttt gaggctgcag tgggctatga 81180
ctgcaccact gaattccagc ttgggtgaca gagtgagact gtctcaaaaa aaaaaaaaac 81240
ataaaacata acttaaatca catctcttgc cacagaaagt aatactcttt tgcctacata 81300
taaggtaata tttacaggat ccaggggtta ggatgtggac atatctttgg gaccactgac 81360
agccatgaag caatctcata attttcaaat aggttctgtc ctttttatct ttccagtctt 81420
ttggaaagca tatgcctata ttttcaatcc acaattctat ttttatttga ggtcatttca 81480
tttctggttt ttatttttta ttgagacagg gtctcactct gtcacaggct ggaatacact 81540
agcacaatca tggctcactg cagccaactt ctgggctgaa gtgatcctcc agcctcagcc 81600
tcctgagtag ctggaactac agacacacat caccatgcct ggctgattca ttttttaatt 81660
ttttctagag acaggctcta tgttgcccag gctggtctca aactcctggc cccatgcaaa 81720
cctcccgctt cggcctccca atgtgctggg attataggag taagccgcct taccgagcct 81780
ccagttttat tgtgttttgt tttgttttgt ttgagacaga gtcatgctct gtcaccaggc 81840
tggagtgcag tggcacgatc tcggctcact gcaacctctg ccttgcgggt tcaagcgatt 81900
ctcctgcctc agcctcccga gtagctcgga ttataggcat gcaccaccac gcctggctaa 81960
atttttgtat ttttagtaga gaccgggttt caccatgttg gtgaacacaa agtatttgag 82020
agctggttta atatacagcc agctttccag aaatgcaact acgtgttca tcaaggaaa 82080
actgaacttc gttttcctta aaacttatca ccagctggtc atcattttga caaattctgt 82140
caacaacagc catgtcattc ctggtatctg tattggtcac atctgaacga cacacgccct 82200
gcatgcagcc ctgcaggtac tggctgtata acacgcctgg caagaattcc cttccaccct 82260
gtgtcccgga aacaagaaag tgattgtgat ccactcacct cagcctccca aagtgctggg 82320
attacaggcg tgagccactg cactcggctt cctcccgttt ttttttttt tcaatgctta 82380
tattttacтc taattaactg agtcaaaaat tgagaatagt tgaatacact ttcatgtaag 82440
gcgaatcatt tagccgatac ttaactctgc atttgggcta ccatgccgct gtggttagcg 82500
gggcaaggtg atgagccctg tctcaacaca cacaccccgc ctctcccacg ccccttaca 82560
cgcgtccatt cccacgcagg tgtgggggcc ttagaggatt ccctcttctt cgtaaagtga 82620
gaatgggctg gactcggctt cactgcccaa caactccttt ttttcctttg ggaaactgtc 82680
cttcccattc catataacct tcatgggctg agatcactca ccgagctaca ggaagaggcc 82740
cattactatg gccccatcag ggttctgcct gggacagtcc ataaatgctg gaagagagag 82800
gtgcctttcc ctactgaggc tgctaaaagg agacactgca aactggggct gctggtggca 82860
atcttacact ctcagtgaaa gcctgcctgg ctgcagggga aaccaatgca cagaccagca 82920
ggggcaacat catttgaacc cctggagaca gctgtgcctg aagcccacat ggctcaggca 82980
catgctcaag ccactctgat ttgcttgtta cagtcaagag agtccttggc cgggcacagt 83040
ggctcatgcc tgtaatccca gcactttggg aggccgaggc aggcggatca cctgaggtca 83100
ggagttcaag accagcctga ccaacatggt gaaaccccgt ttctactaaa aatacaaaaa 83160
ttagccgggc atggtggcat gtccctgtaa tcccagttgt tagggaggct gaggtgggag 83220
aatcgcttga acctgggagg tggaggttgc agtgagccaa gattgcacca ctgcactcca 83280
ggctagctaa caaagcgagg ctctgactca aaaaaagaga gtcctgactg aagctgagag 83340
gctggtggac agctgtcagc aagcagtgtt tgtgagtctg atgtgagctg cgaagtccac 83400
acctgatttc agagctggtg gctctttttc caatcaggac agctccaggc ctgagttttg 83460
gtgtggtctg tacctaaccg ctgtgtctta ggtcaggatc tctagaagcc aagcccaaga 83520
caggagttct caaatgccgt gatttactga gggaatgcct tcgggggaac ctgccagtga 83580
ggagagctgg aggaggcggg caggggcggg agctgagcca ggtgggggtc cctgctggag 83640
tctagcctca gcttgacccc acaggggctc tggagcagga acagcacact gcattgtccc 83700
ttgaggcagt cactggctgc agttgcctct gggagcagag taaaagtgga caggcatttc 83760
tgggagtaca attccctaga gaaggggaca gctctgagct gtgttaccag ccaccatttc 83820
caggggctgg gggatgcgct gcactggccc agagaggtct ctgagcaagg cccccacaac 83880

ctccacttca acctcctgcc aaacctcaag cagattgaga aggagccgct agagacacag 83940
gaacccttтc ctcatcagaa gtctccaagc tttggaggaa gaaggaggca ggcaggaggc 84000
gggaggatcg tttcacccca ggggttcagg gctgcagtgg actatgatca tgccactgca 84060
ctactgcctg gtgacagagt gagaccctgt ctcaaaaaca aacagacaaa aaaaatcaat 84120
gctcttagca tctgctgggt ccacattggg cagtgtgtgt gacgtggtcc agctgcaagg 84180
gaggctggga aatgcagttt cattatctga gtactagtgg agaaagaaga gacgaaagca 84240
atgagaatcc ctgccatgag gaagtgagag ctgattcatt tcagcttcct aaggtgaggt 84300
gatggggccc agacaggttc tgaggccact ggaggtcaca caggccagca gggatacacc 84360
cagtggtaga ccctggtctc caggctccca ggacacagac cacataaaag caaggtcagt 84420
ctcagcacac agatttaata agcactgtat gttatgccta cagctgcagg aaaccagggg 84480
gaagatggcc acagggccaa tgccaggcag ggcacagggt ggggcccctc aagcagcata 84540
tggggaacag gaaagactct gccagcatgg tcatggtgca caggtggcta caatggtggg 84600
taatgcccag ttgggaggat gcagtgttag acggggtctt gtccgatgga ttccttaggg 84660
ggttatatgc ttgggaggct gatacaattt cctagaattc tgggattctg gatggtcttt 84720
gacctgctct aggggatctg ggtctccaga gaggtctcag ctacaaaagt gaccctctcc 84780
tgaccccacc ttgtgggaga ccccagtggt ctcaaggtct gtgaataaag cgacttacaa 84840
ccaagatgcc tcctgacagg gagacggggg ctttacagtc aggccccagc ctacatccct 84900
tgccccaggg gacggcacac agggtgtcca aacctacaaa gggcagcgga gtgaaagcac 84960
cagggccggc ttggggggta agccagcccc ttctcaaggg gccagtaggc cacagaggcg 85020
gcccaggcag gcagggtgga gtagctggct gtgctatccg aggtcgctgt cctaatcaga 85080
gcagggccgg gagagccagg acaggaagta tggagagcag ggagcgtctc tccagggccc 85140
tgcctgtgga ggacaccttg ggggtgggag ccaagtgcag acttgaggca aaagcctgtc 85200
tctgccctct gcctgcaccc ccaccccagg cccttcatgc ctccacccag gcccaccagg 85260
gacggaaggg tgtgaaggtg acagtggggg aggtgccagc tcaccctccc ctccctgcac 85320
ctacctgcag gaggctgtgc tccgggtctc cctgggggtt cagctggtcc agcaggactg 85380
ggggccaccc gctggcaaag gcctgaatgg caccatctat ggagggaggg gtccagggtg 85440
gacttagctg ggaaacccta gcacagggct cagcacaggg gacaaagtga gagacccact 85500
gctgcaaaga ctggctcctt ggacagaagg tgtgtggtga ggaataacaa aataataagc 85560
acagctgtga cagagtgact caactgtaca gtcttccatt ctccccctcta aaatggctcc 85620
cagccaggcg gcttgggagg gggcagtaag cgccgccccc actccccctc cactccccac 85680
cgggccctc acccaagcag cggttcctgg taaagagccc ccggaaggct tcgcagtcct 85740
cacgccggtt cccgctggct ccgcagtcgc accagggcgc cacgcgcgcg ctcacgttgt 85800
ccacgtagtt aggggtgacg gcggtgcctg cggggaccct gagggcgaag tcatcggccc 85860
acccgggcgg agatatccca tggagaaccc ccgccctgcc ccggatcccg gccgcgcgta 85920
cccacgaggc ccgcgtaggc gcgcaggcag cgggcgccct ggtccagcag gcagccgtcg 85980
ggggcgctgg gcgctggggt gcacgagacc tgaaaggcca ggaggcgagg cctgcgcggc 86040
gggagggcgg tgagccggag agaggccccg tccccaccct cgccacggcc ccgccgccgc 86100
ccgccgcgac ctgcagaccc ggctgcgctc gcagaagttt aagggctcaa ggcaggaggg 86160
cggcgcgggg ccgggccccg aaaaggcgca ggagggcacg aaggtctggc gccgacgctc 86220
ggcgcacgcg gggcccgcgc acgggcagaa gagcagtgcg tgggtgagcg cgggcggccc 86280
gcgggcgaag aagcggcgca gggcccggcg gcagcggggc cggggacagc cccctgcgc 86340
agcccggccc aggcactgcg ccacatactc ggagcgcaaa cgctggcacc gcgcgtccgc 86400
cgtgcaggct tcggccgcgt ccacacatcg gttcctccgg accgagctcg gccgccctgg 86460
gaaaggcgcg gggaggctgc aggtctcagt gcgccccgca tgcacacttc acccagccca 86520
tccacgcccc tggaaggtgg gggacactga aaacccgaga aagcatagag tgtggcccaa 86580
aggcggggcc gactggcact gatcggctct ccgtcgtggg gatgggcagc ggcgggctct 86640
ggaggggctct gcaacacgtc agggatggag agggagcatg gaggctgagc caggccttcc 86700
ccaaaagctg aagcccctcc ttcccaagca tcgccaccat tcccagaacg gccacacacg 86760
tccaaagacg ggtccagggg ctcctcctac actcaatggc actacctgac gggggaacaa 86820
tgaggctttc tggggatctg gccaatggag actttaaaac cagagatggc atagaagaca 86880
gtggctgctc ctagtctctt aatgacaggc tgtgacgcca taccttttcct cctctacccc 86940
ctccacctcg ccgcttatcc tccaccatgg agacccttttg ggtgggtcta ttgatttctg 87000
tttctccctc cttcctgacc tcctgctcct cctcctgccc cctgcatggg tgtctcccct 87060
ctccagccct tcctgatgct cccttgagtc gaggtcatcc tgccccatct gcactggctt 87120
cctccagccc ctccaccctt catcagccag gggagagcgg atttatgcaa gagctctggc 87180
cactgaagaa cccactgagt cctggctgcc agggtgtgga ttcagagaag tccctgacga 87240
cacaccgccg ggctttgtcc tgagccacag gacccaaggg ttcatcagtg gttttagtga 87300
ccaggcccca tgataggtga caccctgctg gagacagaga aggtgtctgg cacccagtc 87360

```
acacaccagg ggttgggtag acagagggtg agctctgccc acatgcccac aggctgtgtc   87420
taaatagagc caggataact ggaagttggg acttggcagc cccttcccag gatttgagtc   87480
acaaaaacca ggctaatcga atccccccca gcctccacaa gttctccagt ctggagcatc   87540
tcattcagac tagaagcctt tctggtgccc agcctgagtg gacgtgcaca gcctggcccc   87600
tcatccatct ccctgtgtgt ttgtgcacag gggctacggg gtggtatccc ccccagggc    87660
tgggagcagg gtgcctctct ggcaatggct gtgtctttca ggctgtggat tggaccgcgt   87720
ggtgagagtg attcctgctg tgacttcagc acctgcctct gcaggaagga tgaacatagc   87780
tcgagggctt agaatggtcc ctgagtggag gggatagatg gcagcggggt gagtcctccc   87840
ttcctcccct ccccaaaggg cacactttgc tttcctctca cagcctTgcc aggcacatcc   87900
tcaggtctca gctgcacaca ccagcacctg atgttgccta agggtttgaa cccacctctg   87960
cctgttgctt acctgtcacc cttgcccaga acacccttac ccagtctcca ccctcacagc   88020
agctcatctc agctgcaaga tctcctccac cttaaacctt taccagattc cactttccac   88080
actacactcg gtaaagtgac ccctccctcc gcgacatcca tgcagggacg gagcagtcca   88140
agaaggtgga acaacagatg aacaacaccg aagattcacc aaggaatctg tgtgatgggt   88200
aggagggctg gggctgaggg gagggtgaga gagttgggag atggcagaca ataggcaaaa   88260
gttcctgggg cacgggtgcc aaggctggac tcgggagggg gatggcggtg gtggcttgac   88320
ggggctggga ggtgaggtgc tcagcacata gtggggtcaa ttgccagggg tccccaagcc   88380
gtgcgcacag gcctctcact ggcaaccctt cctgtggttc agcttttcct ggaatatctt   88440
gccctcccac cttgtcactg aggagcaggg acagagaggc cagggttcgg ggtccagggg   88500
aagagagggg cgctcaccca gtaacagcag cagcagcagc gcaggcccca ggcagcggac   88560
catgctggac cttcaacaga gaaggatggc tggcagagtc ctagtctgat aggcgccccc   88620
ttcctagtgc ctctggagca ggagcacagt gaaaacccag ctgtctgcgc tgatacccct   88680
gggaggagcc tttgctgcag caactccccg ccctcattaa gtctccaccc caggctgcac   88740
cgtcaggtaa acctgggagc cacgggattc ggcgcctgaa tgtgcctaga cggaccccaa   88800
cacactagcc ctgccacgca cacccagcaa cacacagaca accacccagg gagacctggt   88860
ctctcccatg ctaaactagg aacgctatga aacagcattt ttcttttcct tttttatata   88920
attctatttt aaacttaaaa aaatttttgt gaatagagtt ggggtctcgc tctattgcgc   88980
aggctggtct tgaactcctg ggctcaaacc atcctcccac ctcggcctct caaagtgcta   89040
ggatgacagg tgtgagccac catgcctggc ctattttaaa cttcttattg ttgactaatt   89100
ttagacttgc agaaaagttg gaaaatgtaa gcattttcct tacaccctto acccagcttc   89160
ccctgatggt ccatcttact taatcatagt ccaatcatta cagctaggaa actaaccttg   89220
gtacaatcct gttaacgaaa ctgtagactg ttttgcattt ctcatttttc cactaatgtc   89280
ctttttctgt tccaagatcc attctaggat cccacatcac agttgtctcc ttattctcct   89340
caatctggga gttccttcat ctttccttat cttaccctt gacacttttg aagaatcctg   89400
gccagttatt ttgcagaatg tttctcttga gttgtctgat gttttattct gatcagaatg   89460
agacacagca ttgttttgac taaccaaaaa gttattctat aagtaaatat tgaggttaaa   89520
aatctcatcc aacctgggca acagagtaag gccctgtctc aaataaagtc tcaacactaa   89580
gatttaaaaa gtgaccagaa aagcccccac tatgatttgt cttgactttt ttttaaaaaa   89640
caaacaaaca aacaaacaaa caaacaaaaa cgatgtcttg ctctctctct ccctcaggct   89700
ggagtgcagt ggcacgatct tggctcactg caacctccgc ctcccaggtt caagcgattc   89760
ttctgcctca gcctcccagg tagctgggat tacagacgcc cgccaccatg cccggctaat   89820
ttttgtattt ttagtagaga caaggtttca ccatgttggc caggctggtc tcgaacttct   89880
aacctcaagt gacccgccca cctctgcctc ccaaagtgct ggaattacag acgtgagcaa   89940
ctgcgcttgg cctcattagc atcttaaatc tccacacagg ggtgtgttcc ttactgttat   90000
aaggagcaaa ggatcagttt gaggacaggt aaaatataaaa tgcgcttgct gcctagaggg   90060
agaagtccct gctgaagata gctttgcttg aatgagctca attgcaatgc cagtgctgag   90120
gcttgttgac tgtacggtca ccacagttgc tgctgcgcgc ctagaacatg gtcacttttct   90180
tgactaccta tcctgtctca gtacatctgt ctgtggtttg tggtggtcca tttcctaatt   90240
tttttaatga atcagaagac tgtgatgtgc tttccgctgt gctaaccatg gccgctgaag   90300
caaaatgtaa accaagatgc ccctgcagtg gttgtgcttc actctacgac atctgttacc   90360
ggaaaggggt ccagattcag accccaggag agggttcttg gatctcgtgc aagaaagaat   90420
ttgagacgag tccataaagt gaaagcacat ttattaagaa agtaaaagaa taaaagaatg   90480
gctactccat agagagcgca gccctgaggg ctgctggttg cccatttttа tggttgtttc   90540
tggatgatct gctaaacagg ggtggattgt tcatgtctcc ccttttaga ccatatatgg    90600
taacttcctg atactgccat ggcatctgta acctgtcatg gtgctggtgg gagtgtagca   90660
gtggggaccg accagaggtc actctcatca ccatcttggt ttgggtgggt tttagccagc   90720
ttctatattg caagctgatt tttttggttg gtttggtttt tgagacggag tctcgctcca   90780
ggctggagtg cagtgacatg atctcagctc actgcaacct ccacctcctg ggttcaagcg   90840
```

```
attctcctgc ctcagcctcc caagtagctg ggattacagg cacacaccac catgcctggc   90900
tagtttttgt atttttagta gagatgaggt ttcaccttgt tggccaggct ggtctcgaac   90960
ttctgacctc aggtgatccg cccacctcag cctcccaaag tgctgggatt acaggcgtga   91020
gctaccgcgc ctggcctact gcaaactatt ttatcagcaa ggtctttatg acctgtatct   91080
cctatctcat cctgtgacgc agaatgctgt aactgtctgg aaacgcagcc cagtaggtct   91140
cagccttatt ttgctcagcc cctattcagg atggagttgc tctggttcac aggcctctga   91200
cacatcctct tgtgtttttgg cgtgtgggag gaaagagggg tgagggaagg aaactcaaaa   91260
ccaagctctg accacacagg gcaggtacac tctcccacct gtctgtgggt gccacaagtc   91320
aagggagggg cagagagaga agaaggtgtg acagatggcc gcaggccaca gaatgtcaga   91380
ggaagcccag ttcctcccgg ggcagcccaa gtagctggta gttgggtggc caaacagagg   91440
gcgtcacagc tgagctgggc tcgctcgcta cccccagctc agcgtccact ctgcccctca   91500
gtacctcctg ctcagcctca gggtccatgc ctaccctcct gcttcccagt cacttctgcg   91560
tgcctcctgc ttttctgctg ttggccccat gccagctcct ttctgctgag cttctcttct   91620
ccagttctgc agcacagcca ggtgatcctg ggctccagac aggcctctcc cccagtctgg   91680
ggcctcccct cttagagccc tctttccttc ccacgtggcc tccccagggt tcgccactga   91740
atggagaagg ggtggagggg gtgctgggca gtcttgggga ttagccaaga gggcagagtt   91800
ggcctcccca gggtcccttg tagctggagt cccgcggggt ctagacaccc cctcctgaag   91860
ggtaagagcg ggggaggtat attaacgtgt atttttagag tctctctttt ttttttttt    91920
ttttttgaga cggagtcttg ctcttgttgc ccaggctgga gtgcagtggc acgatctcag   91980
ctcactgcaa cctccacctc ccatgttcaa acaattctcc tgccgcagcc tcccgagtag   92040
ctgggattat aggcacgtgc caccacaccg ggctaatttt tgtattttta gtagagatgg   92100
ggtttcacca cattggccag gctggtctcg aacttctgac ctcaaatgat cctcccgcct   92160
tggcctccca aagtgctggg attacaggcg tgagccacca tgcctggcct tagattctct   92220
attttatgat ggtttaacat ctcggggtgg gggcttgttg gctggagaga aactgcttga   92280
ttcctggaga tcagaaacaa ctcatgcctt tcatatgcaa accgaccagt cttgagtcca   92340
tacaccaacc acccccttca aggaactctc acatacgaaa ccagtatttc ccctgcccta   92400
aaccagctca gggccaggca cctaccccaga caattagagc ccaaccccac gccccaaacc   92460
ccaccagaat gattcaaaat gccaatccta ccctcttccc ctggcctgcc ttgcctcccc   92520
agtggaaacg gcactgtggg ctgtggcctg tgccttccac tcgctcctga ttctgtccct   92580
ggaccaaacc tagtgcctcc ccactgtggc cctgcatggt gggaaactgt gagtaataac   92640
ttatttcaac agcattggcc tctgtgtcat cagtcacctt catcaaattaa aattttgcaa   92700
ctacaactga ggcaggaggg ggctttagag agcactctca cctggcccct tgggcttgtg   92760
gagtggagcc cgaggtgaag ttgcctccct gcactcagtt ttgggatggt tttgttatgc   92820
ggcaacagct ggctgatata ggccactcag cagctcttgc atgaagcaat gggagaatgt   92880
gaacgcccaa ggagggcagg agtgacagag caaagagggt gttcaaacta ggcaacaccg   92940
tcctgtgccc agacacatgc ctggggctct ggctgccatc taggctcggc ctgccagcca   93000
ccaccccgtc agccaccacc ccaccaacca ccaccccgcc aaccaccacc ccgtgtggtc   93060
ctcagggcac cccatgggtt gaatttacat acagaaaaga ctaaccaagg tccaagtgta   93120
atatgtcttt ttaaaattta ttttagagac agggtcttgc tctgtcaccc aggctggagt   93180
gcagtggtgc caccatagct cactgcagtg ttgaactcag gctcaagtga tcctcctgct   93240
tcagcctcct gagcagctag gcctacaggt acacaccacc acgcccagct aattttaaaa   93300
tttttctgta gatgcggtgt cttgctgtgt tgcccaggct ggtgtggacc tcctggcctc   93360
tggtgatcct cctacccaag cttcccaaag tgctgggatt ataggcatga gccaccacgc   93420
ctatagccaa catgtctttc ttttgacttc tactttggta tcttttctta aatggttccc   93480
tctgtcccc cgacacacac agaatggggg agaggctgtc agattctgag ctccagaacc   93540
tcaggtgtag cactgggatt gggggtgggg gctcaggaac cacctagggg agaagacagg   93600
gtgggaagaa acaggaagga aggtccccaa aattatgttt gttggcagag gccagccagg   93660
ctccagggga gtgtggactc agtcgaacca tagggcccca ggaccactag cttctggcca   93720
gcagtcatgc cctccacaga gctgggtccg tggaaattgc atgtaggaga cacaccagac   93780
tcccaggaca gagccctttt gggatggcca gcactaccca gcctccactg gtgagggagg   93840
tcaggggctg tgtgaccttt gcttctggga ctgatggttt attgagctgg agagtgtgcc   93900
cagcagtgtt ctccagccct caggaacttc tagtgtggct ctgggttcct ggagtgggtg   93960
ggtcgaagct ccactcgggg aagaaacttc caagctgcct gcaggtgctg gaggtccggt   94020
gattcactgg ctctgcccct gcagttcaag ttcctggagt ggctgtcagt ggccacctgt   94080
ctttaaatct gttcatttta ggagctacct ctcaccagag gcaggatctt ggcatctgga   94140
cttgatctgc tgagaatgag gaggatatgt tgtcccctaa ggactggggc cccaggctgc   94200
aagctgtgtg gcagagagcc catcctcact cagtgaggac cagtgatcca ggaaaagcca   94260
cagcttctcc ctccccagcc caggggcttc cagcatcctg gtctccatga taaccaagag   94320
```

gtcataaact catttccata ataacctgag cccagaaacc tgattagggg gcagcaaact 94380
gaggggtggg agaggtggga gggtgggcga tgagaggggg aggctttgaa tccaggtccc 94440
tgcctacctt gggggtcagg cgagactgct ggcagaggct tctcagggtg gctgctgggc 94500
tcatgagagt tctcagggtc tgggagaaat ggtggagggt aaatgttgtg aatatggtca 94560
gcaggagacc ctggggctgg ggaggggcat aggggactca aggtgactgg gtgctgccca 94620
tctggaagga ggcaggaggc atgagccctt cccttctccc ttcccttctcc acctcccccc 94680
ggtgcctcac tcacccaggg gccagggctg tccagtggct gtgggcccca actccatggg 94740
gtgaacgccg cccaggggct ggtccctgtg tgggccatct ttggggctga gcaacgtgat 94800
aagagtccag gaggttggca cagtgatcct gagtgggtta ttgcctcccc gcagcatggt 94860
gtccagccca gggagttctg cgtttactga gtttcttggg gcacccatct gctccaagtc 94920
accctctcag ctcccttcct gctccctctt caggggagcc ttgggatcca ggctccaagt 94980
gagcctcatg ccctcggctg gcacctcctc tctctagtcc taacatttcc tccaggctct 95040
gacaccaccc agcagcctgg cactctccag atgctggcat cgctcagctt ccaaagaacc 95100
ttggatgtcc gcccctcgg cagctatgtc tgctctcctt gcccctgggt gccctgctgc 95160
ccttgatgat tccaagccat ctttgactgt ccccatccca tcccccaagg ccttgtcatt 95220
tcctgtgatg ttccttcaaa acattctccc ctgccctgag actcccgcct ggggatgaga 95280
agcagccgcc accctctgca gcgccccctc cgtgctgaca cgccaggctc tggccacctt 95340
gctcctctgc ccacagaccc tcaatcacaa ctcgctttgt cagggtcctc ttagctgcca 95400
cccggggccc aggtggtgcc ctgcccctgt ctgttatgcc ctctgccccc atctctggcc 95460
caaatcatgc catctccctt ggcttgcccg gagcactccc aagaccaggc tatgtcagac 95520
atggccacag agtgcctgcc ctgcctaggg cctggtgtca gggtgagtcc taggacagcc 95580
atgcttagta ttatgtgact ccccactccg ccaccaccca ggtcacagag aactgggtta 95640
aggcagggcc ctggcacagg ggcagccagc accgcagctg accagtggta tggagtgaaa 95700
agatgtgctg ggcccagcat ttgggaactt caaggggtg acagaggtga tttgtgcaga 95760
ggaagtggca aagggccgaa aactggtgag acagaggctg gacaggcctc cgggggcagc 95820
atggtacagg gactgcaatc tgagccaggg aaaaacaggg cgaagtcaag ggtgaggcag 95880
ccagctggtg ggagaagcag gagagtggac aagaggagct gtactgggag gtagagggcc 95940
atgccttgcg gtgctggtgg tggggcaggg atccacccccc tcgcttgact gggaggccac 96000
tggaacctcc tgttcaaagc tacttctttc catggcctct ggggctgctc tctgcacctg 96060
ggggcaaggc tgagggcctg ccccagctcc cacagcccca gcagagctct gaggagggga 96120
accgcaggag taggctcagg aagcaggcgc tcggagccta cccactgcac gcagggtccc 96180
ttctgcagcc ccagctgcat cgctgcagat gggctcctgg gagtcggtag caacaccagg 96240
ccaggccggc ccctgggagc agaggcagca ggacgctgag gagcatggcc agcaggaagg 96300
tgtcatggtc tgcggggatt gggggaaggg gcgctgagtc ctgagcaggt gcaccacccc 96360
agctcctgcc cacatgcccc ccactggcat actttcagcc tgcacagggc cactgtccat 96420
gctgccacca aagcctggct tgtcacagaa gggtggagcc cagcctggag cacagtggca 96480
gttatggttg ctattgcaaa cctgcagaga agagaagagg agggtcacgt aggattagga 96540
accccaaggt caccccccact cctcgggctc tcaccccgtg gctgtggcag gcagtcaggc 96600
agcgctgaag ctcctggaag gcattcttcc tgcagcgcct gctctggcac acctacgggc 96660
agtgcaccag gcagtgaggg ggacactggc ctgcgggatt caaacggcaa ggaggggtcg 96720
ggtgggcaga gctcaccatt ctaggtccac actgggtgcc tggctctacc aggcccaggc 96780
caagcaggtc cagctgggca ctggggagtg ccaaggctcc ccgacaagtc acttcctggc 96840
catctaggtg aacggtagag tccactggca ccatgtgcgg tgcgagcagg ctgggctttc 96900
caccctggca ctgcagcttc ccacacaggg catccctggg gaggaagtag agggggtca 96960
acagctgcag taccccctt ccccaaacc actccatagc ttctgctccc tccactcagc 97020
tccactccct acctccctgc acagggcagg aagtggccct cgctgtcctg gccgcagttt 97080
ccatgagcat ctcccgcaga gttcaccacc tggaaacagg cctcgggaac tgggtgggag 97140
cctgaggaag catgggccag gctgggggca gctcggagag gggctgcgct cagcgggcct 97200
cagtttcccc tgcccatctt ccccacagta gaaaactggc cccaccagag gatggggggc 97260
agggtgcaag ggtgctcgtg tcctctcacc aggccccag agctgctggc actgctgctc 97320
cagcgtggga catgcgccat cccagcagta gccactgccc ctggcacagg gtgagccgtc 97380
cagtaggtaa acgtctgggg gacagtggga ggaggtgccc gtgcaaaact cagggaggtc 97440
acagtcaccc atggcctggc ggcacagcgc tccagccggc ttcagctgcg caggtgacgg 97500
gtggtgggga aggcagagag aggccacgtg cagtgagagg tccatgccga gagcgcggct 97560
cggagctggg ggagccaggc ctacccaagc ccagcaccca acgggggaac ctgagggcac 97620
caattaacta aggccaacag gccggctccc aagctccccg aaaccctcac cctgaacctt 97680
ccatgccctc accaggcagc gcacgcagca gtccccgtgg gcgcactggg ccccgggcg 97740
cagcgagcag ttgtgagcaa agcagcagag gtcgcggcac tcctgggacc agaaaggcaa 97800

```
gaagggccca ggtgagggcg cagcgcccca gacctgagcg gagagggcaa gtgggggccg   97860
ggcgagccga cttaacctgg ccagggccgc agtcacactc ctcgcccgct tccacgaagc   97920
cgttcccgca gagcgccggc ggcaccggga gtccgggggtc cggggcattg gagaggcaag   97980
cgccgccccc cttgcggaag aaggcgcgca gctggcggcg gctgcaggcg ctgaacacgc   98040
gcggaaacgg gtgcctaccg gcacggggag ggcattgggc atggagggac agtccccaca   98100
cccccgcgct tctctgatcc ccacccctgg gcttggctac agccgccaga cgcgcagagc   98160
ccagagaggg gaagtaaccc gcgcaaagtc acacaacaag cgggacaggg gacgatgcgg   98220
ccccaatagt gagcagcccg ggacccaagg tggaatcgcg acccgacggt gctcctccgg   98280
gtgtaggagt aacctcgcca ggttactcgg aaaataatct tcatacggtt gagaatccac   98340
tttgcctgag cttcttccct ttaagcctca taaaccaccc tgaagcggac actatgatca   98400
ttatccccat tttacagaag aggaaactga gggacgacca aagaaacgca gcggaggaag   98460
tccccaggac tagccgcccc gccgcagccc cgaccccca cccgcgtacc cggtggccgc   98520
agccatgacg cagcctccgg actcggccgc agcctccacg cagcagccgt cggggtcgtg   98580
gctgaggccg aggctgtggc cgatctcatg ggccatggtg gctgcggcgc cgatggggag   98640
ctccgagtgg tcctgggggg ccgtgggagg gcggtcactg cggccgtaga gcctcctgtc   98700
tctccctcgc cccgcccgc ggggctcacc gtgctcacgc ctcccgagct ctcggcgcgg   98760
cacatgccct cgacgggcgc caggcccact gtggcgccct ggaaggcgcg gcccctgggg   98820
gcggagcgcg gcgtgaccag gcgggccgg gaggtgaggc cgccccaccc gggacccgcg   98880
tccgggtcag aggcacccac gtgagcagct gcgcggagtc gtgggggcgc tgcgcccaca   98940
gccccggcg ccactgcagg aaggcccaga gcgtggcgtt ggcgtcctgc gtgacgcggc   99000
tgcggtcccg ctcggtccac acctccaggc cggtcagcgc cacctgaatg tccagagtcc   99060
tgagaagctg agggcgaggc ggggctgaag ccgggacagg gcgccccatc gcgccggtgg   99120
tccttcgtgg ggcgcccttc ctcttcccca aaccccacca gcacctgcct gtcctgccgc   99180
cgccaccccc atcaccgctc tctcccgccc gcccccaacc tggtccacgt agttggcgac   99240
ttccaggaga cgctgtttgg tgtggttcaa gtttcggtgc cgagtcaaga actgggaagg   99300
cagaaatccc ggtggcttga ggggctgagc tggccccatc cctgaccccg ccaaccccgg   99360
gggtctctcc tcaccagggt gtggtctgcc acaatgtaca gttccaggta ctttccgggtc   99420
ctgcgcgctt ctcgcctgcc ctgcggaggt gcaaatgggg accctgagtg gaagctgctg   99480
ggcttgagcc ctgaccccca accccagctc ccagaaggaa gtttaacatg ttttctggaa   99540
cttgtttctt cagacttcaa taaaaatact gggactcgag gcctgtgaat tcctgtctct   99600
tctgatttgg agggctatag atacagcatt cccactccca tccgatcgat gcccctgacc   99660
ctgctctggg gaccaccagg aaggctggtc atgcccgctt tgttcccagg atccctgtgg   99720
ccacaggttc ctttccaggt gagcagctgc tccatccgaa agatctcgtg ggttgagaag   99780
tccttggagc cccgggggtgg ccagggacgc agataatagc tggcattcct gctgagggtg   99840
atcaggccac tagggtgcag aggggtagga gcgggtgtga ggagactctt tccccatccc   99900
aggcccagcc tcctctccca gagctcacct catcccagag caggtgcaga ggactaccca   99960
ggagtcgggg aagccccttа ctcgcccttg gtagtggcaa tgatcctagg gaggaagggg  100020
ccagccccaa atctcagcca gggctggagc aagaggggca agagggaggg tgtggtaggg  100080
gctggctcca accgcccctt aggaatgcaa ggaggagtag gggtaggaat ggtgggggtg  100140
tacctctggc ggtgcatccc agagcccatg gaagcatctc accgtgtggt tgggggccag  100200
caccactggc tgcccatctg ggccgtagtg ggttttctatg tatcctgggg ccagcagcct  100260
gctgagaggg ggtgttacag ggaacactga attcagcttc ctcctgcctc ctccaggatg  100320
tctcccagcc ttcctccctа aatgctaatg gagcagcttt atgagtgaga cactcacagt  100380
gtgtcttagg gaagggacag gagcaatggt gacttgctca gatcagaaac tcttggggct  100440
agaggaagga gccttggtga tggcttagtt gtgggagatg tgaatatggg aagcaccagg  100500
gaggacgccg gggaggagtg ggaatagggg aagagtttgt ggttcccagg ggacctgcag  100560
caggcagcag gatcccacagg atcgggaggg gaggagtcag gagacactgc cgaagaatgg  100620
gacttggagt tggggaaatg cggtgacctc ccccagttcc cctgcctgct gccctccttt  100680
gttgggcatc tggtcgaccc tcttgccccc acctgcccta gatccttgaa atattttcct  100740
cagacttcta gaccccacat acctccacc tgtccttcag tgattgatgc tcacccctg  100800
cctccagaga aaacagaatc gccacctgcc cacgctgctt ccaccctccc tgccttctcc  100860
acacccactc cggtaatgat tccatcttca ggctccatct caacaggatc tttcccacac  100920
ggatggatca atcataagtc aatctgtctt ctttaaagaa aatccttaac ccaacctcac  100980
cttggcctca ttacctccag acccaccgct aatgatggct gcttcccccc tcccaggcat  101040
tccaccacct gccccagctc tgcccctac ccctgcccca cacacacccg ccaccctagg  101100
aggtaggtga tgtgaccacc ccattgaaag ggtagggacg tcgggaaaat atggttgggc  101160
acagtggaac tagagtttgt tccctgtcca tccgactcca cgaggggaga taaaatacgt  101220
gtcaagtgct cagaacagcg cctgcggtca agcactcagt aggtgatata tactgataac  101280
```

```
ataatctggg tggttttaag agcctgcgct ccagcccgga cacccacccc acccagccca 101340
aggcaccttc ctgagcacag gtctgcctgt cccttcccca gctcaaaatc tttggctctg 101400
gatggtccag gacactgagc accaaaatgg ccttctgtga tctggccctc ctgggactct 101460
ccaaattcat tccccccctgc tcccctccct gtagatggag accttccagg caggtcagac 101520
aaactgctgc cccaagtgt agccactgca tctttttctt ttttcttttc tttcttttt 101580
tttttctttt tcttttttttt ctcttttttt gagacggagt ctcactcttt gcccaggccg 101640
gagtggtgca gtggtgtgat cttggctcac cacaacctct acctccgggg ttcaagcgat 101700
tctcccgtct cagcccccta agtagctggg attacaggcg ccgccaccac gcctggctaa 101760
ttttttgtat ttttagtaga gacggggttt caccatgttg gcaaggctgg tctcaaactc 101820
ctgacctcag gtgagccgcc cgcctcggcc tcccaaagcc accgcatctt ggtccctgcc 101880
attcccttag cctggggtgc cggctcatct tttccctcta ggatttcttt agactcagca 101940
tatcttgcaa atgtccacta ggtggtgctc actcatcgcc agcagggagc taacaagccg 102000
ctcctggggt tgggagggcg gaggtgcccc acagcggggc tgacagcctc agcggtcctc 102060
ttcagcctcc agggagccaa ccacaggcct gcgtgactct ccctgtcatc tgcaccctct 102120
ctggggtcct ctgcccatcc agccacccgc acagatctgt gtcagtccct gccccccaac 102180
actgatcccc tcctcccagc cctaccccag cctggcactc actggttctt ctccagctca 102240
agcaggagct cctggccttc agcctccagg gccaccagcc ccatgtctgg cttcgagacc 102300
tgggcaagaa agagtgtgga gctgagatgg tggcctccag gcctcctgcc tgccagggag 102360
taggtggcct gtggagccgg ctggggagga agttcttggg gagaacgtgg gctggggagt 102420
cagcaggacc ccccacatac tatggagggc gtggaggagg tgagaacata caaagatgtt 102480
cccaaactca ggatgtttgc agtcctgaca acagccactt ggaagggcgt tggcacagcc 102540
tgccaggcac accagcatcc tccctagaga ccagaggtcc cagaaaggtg cccctcccct 102600
ggccccgccc tcttctttca tgcccagaag ggcatcaaa agcaggggaa gacagagggg 102660
tgctgaggac attatggggg catcgggtag ccatggtcag ggcctcctca gagcctctgc 102720
tacctgaggc ttggttccaa atgagctgct gctcatttcc tatagaattc aaatttgact 102780
cctccacttc caattttggc aaactgctcc ctcttccaaa gttttcctgg gcctccagca 102840
gcccccgtcc ctccggctcc gacacctgct tcactggacc cacgaagtaa acatggacgc 102900
cattccagcc aagagagcac actggctctc agctaggtgt caggaggctg gcttggacgg 102960
ccagccctct ctccttcccc caccctcttg gcgtctccca ccctgtggga acaccccact 103020
tccccccttgt ccactcagcc tggctggggg cccagagttg gagccggccc aggagcttcc 103080
tgggaggctg ctgcgccttc ggaatgttta acccccgact ccttttctcc aaaaatgcac 103140
tggcctgggg ccctgtccaa gggtctcaga gtctttggag ggagttcttc cttcgcaagt 103200
ggggagcaga tggtccttgc ctccctggcc acaggcccca caaggcctcc agcatgagct 103260
catgaggctg gaatgccact tgctttattg gggaaaggtc tgcaccggga aaaaggccat 103320
actcgaggtc cctgttcctc tgcagcccct gctatcttta ctcttgccct cctggtaccc 103380
tgccccttga tatataccc tcatcttgaa atgtgagtgt ttcctgcctt ttggagggga 103440
tacctagcct ctactctttc ttctgtacca tcttggcagg cttcctgggg gcaggggccc 103500
accggtgggg gaagcagagc ccctttgggg ctctcctctt ggtcacagcc caggccagac 103560
agacagggag gcccagaggc agagtgaccc cagtgtgtgt ccagccttcc cctcctgggg 103620
atggggaggg caatctcaaa gctcaggcca gtgccgtgct tgaccagtgg aatgggggcc 103680
ttatgggcct aggggatccc agtgagggcc ctgggttggg agctgctggg tctctggggg 103740
cctctcagcc ttcatggcaa tgctcccctg ccttccctct tgctggattt ggacagtagg 103800
gctgaaaatt ccaaacaaag agggctctct aggaggggca ggggtgtagc caatggttta 103860
aaatcgttca gaccttagtg ggtctcaggc tcccagccta aagagctgtg tgaccatgga 103920
caatttcccc aagctctctg ggcttccgtt tgcccctctg taaaatgagc atatcaaggc 103980
tactgccctc ttagtttgca gcacagatat tatggcacaa acagatgggg catggttatt 104040
ctggaagcgt gtgaagagcg ggattgggaa gaggctgggg cagagcgtcc tgcagaagaa 104100
gcacatgggg tggtcttaca tctgggggac atcaggagag tgaccactgc ccccccccata 104160
ccagaagtgg attccacagg agccagtgag gctgaaggtt caggccttcg tggcagggcc 104220
ctgagaggga cagcagtgtg tccacagggt cacatgttct ggtcaacttt gcaaaaggtt 104280
ttctttttgg tgcttttttt tttttttttt tttttagagg ctcctgaaaa gcttcaggac 104340
ccacaaactc tggacccatt tctgcctggt gggggtgggg gtggcccaga tcatccaggg 104400
agggagggaa agagggaggt ggggtggaga aagctgaaat gacttccatg tgtgcgggct 104460
cacgagatcc agatgtccaa accccagtgc cttcttctgc ccacttgagg ggcaggggag 104520
gcaggggcct ataggagtag tgacttggtg gttctgggga ccccagcaaa actagaagct 104580
gtaatgtagg gagagacaaa agggctggga ggttcagggc ccctgtggag ggcggggaga 104640
catggcactg accggctcct ccaggctgac ggtgcgccag ggttgtccat ccaggaccca 104700
gtgcggggtg actggctgcc cagggatatg tcctggagta aagacagagc acagggtgag 104760
```

```
ggggacctga ggaacacagg ggcatgggac aaagcagagg gaggggggta gaggacatcc  104820
ccagggaggc actggaggcc ttttggggca gacttcacct tcaacacgcg tgggctcagc  104880
ctggagaagg agggacgccc gtgggcatcc ttggatctga ggagctatca aggaggagga  104940
aaagagaagg ctggaaaggg acagctcagc tggggacacg ggagtcccct gacctttgtc  105000
gggggcagg cttgggctcg gcgatcacaa ggaagaggcc aaggccgcca gtgcagaggg  105060
gaaggaaaga gcgcggcagc cttagggatt tttagatggg cagcagatgc ctttagggtg  105120
agagatgtac gaagagagga cacttgtgcc ccccccatca tctgagaaaa acaacgacca  105180
gatgttgcct tgcgaggtcc accttgccca gagctccctc ggggactctg tcctggtggc  105240
agggttttgg tacctggcc cagaaggccc ctcctcatct cttcaagggg aggggacgct  105300
tccggacgga gccttggtgc tccctggccg ggtgtgccta agggggctct aggaggaatc  105360
ccagagccaa gcattactca gagggcgcct ggaatgttcc cctggaatgc tcccagcccc  105420
tccactggcc ccaaccactc tcacaggccc gccctgcagg agccaggccc caggcaccca  105480
gagcctgcag cagcctcct tcccccggta cccagtccca gctcccagaa cagacagcct  105540
ccccctcca cgcagccctg gcctcagtcc tgctgggctg atggctgcct gtggaagtga  105600
ctcagctcct gctaggccac cccaactcct tttttctcct ccaccttctc tcccagacta  105660
caaacatcaa agacccttcc tccaagaagc cctccttgat tggatgagtg aattgccatc  105720
aggcagatga gggccgagag gagtctgcca ccttggaaag gaggctagag gggccagtgc  105780
agggagggct ctgagtggat gtgggggagg ggaaggaggg gaggtctctc agcccagaga  105840
gcacttaact gagagtagag aaccaagctt tgctgctcct aggcctctaa gggtttgggg  105900
aagaggtagg gtgggcccgg gcacaggtgt ggtgtgggtg cagtgtggtg tgtgggtgct  105960
gtccacatgg ccttgcgcgc acgtgctggc cacgggcacc ctgacccaaa tgagggagag  106020
aggggcagag ctggagctgg agctggagct ccggtgaccg ggtgaatggg ggtggaaccc  106080
gagggagcca ggctggtatt gggcacatag acgcccctct cccaggggtc ccatcacctc  106140
ccctgacccc aggatagggc tcagagggga gggagcagtg gaccgcctgg ggccctcccc  106200
tggggccaga acagaccagg cccctgtacc tgtttggtcc ccacacagtg ctgtggaagc  106260
caccgcccag tctgcatagc acagcccagc cccgcatgcc ccctccctgg ttgccctccc  106320
tgttcccggc caggcacttg ctgtgcagga ctggctaatc ctcccacccg cttgcagagg  106380
ttgttccagc cccatcttaa catctttgtt tggaggggtt accccgagga gacagctgca  106440
gtctttccag agcactgcta aacagacacc ttctatctgg agaggccctt ctctatctca  106500
ccaaacaagg caacaatata aacaacatac acactgccct gctgccctgg gaggagggac  106560
gaggggtgag cagggtggag gccacagcta gttctgcagc ctgagagcaa agcagggact  106620
ctgggggact cttgggcatg ggggcttcct agaggatgga gccccgctga gtcctaaggg  106680
gtggaggagc aggagcgggt cacacggtgg cctgcggatg gaagctggtt gtgagagcga  106740
gaatccaggc agaggggggct acggctatgg gctgggggct gggggctggg ctgtcccgga  106800
gggggaggga gccatgccct ctgctttgcc agcggagtgg cagccgggca gtgtgggcaa  106860
gtccgggccc ggggccagcc caagcacact tgagcgtccc tgggcaggtc ccacggagac  106920
ccccccaaag agtccccacg ccctgaccta ctggccgtat ggtgccgggg ccgtgagacc  106980
ctccgcgcgc tgacccgagc tctgagcaga acccatcccc gccaccacca ccgcgcctag  107040
cctgcccctc agggcgcacc ccgcccgcgt cctcaccttg aagcaccccg gcgcctggca  107100
ctggccagag cagcagcagt agtagcagca gcagcaacgg ggtccccgga gctctccggg  107160
gcctccagcc catagctgtg agctcctcgg cctctaggca gcggctcgca actccggctc  107220
cgcccaggct ggattgcggc cgacccgtgc ccggtgcagc ctcaggccgc cgccttcgga  107280
ccttcccgcc cccacctccc accgcccgcc ctcgctcccg cctccctctc ccgccaacct  107340
cgctcggagc ctggccaggg gccccgacgg cgcgcgccat gggggagccg ggtcgccact  107400
cccggaccgc cgccctcga gggggtggag ctgggcggag gagggaatcc gtcggcgccc  107460
tcggatgacc ggcccgagcc gtccctcccc gtcggtctca gagggcctct actcctgaga  107520
ggaggagaga accgctggga aggttcttgg aggaccgcgg cgtggtggga tgaggcggtg  107580
ggcaaaggcc gcctctcgct gctgaagttg gccccaggag cgcgatcttc cgtggtctcc  107640
tggggccgat ctctgtcccc tccttgctac ccgtcctgcc ccgagggtgc cctggcggag  107700
gttgagtcgg gtcatccacc tgcactgggt gcccccaagg ataggaaggt tcaggcaacc  107760
ggctgccgct gtcttggggg cttcattgct gggcaaaggc gatgcagcag acggagacaa  107820
cctttcttcc ctggcggtgg ccagagggca gaattgcata aaagctgcag actccaggc  107880
ctgggagacc ctttcggcct cagtaacatc tgtttcatgt tttaaacttt tgttttccta  107940
ctcggtgcaa atttggatga gatgttaact ttttttttt ttttttttt gagatggagt  108000
ctccctctgt cgccaggctg gagtgcagcg gcgcgatctt ggctcactgc aacctccgac  108060
tccctggttc aagcgattct cctgcctcag cctcccgagt agctggacat acaggcgcgc  108120
gctaccaccc ccagctaact tttgtatttt tagcagagac gaggtttcac cattttggcc  108180
aggatggtct caatctcctg atctcgtgat ccacccgcct cggcctctca aagcgctggg  108240
```

```
attacaggca tgagccaccg cgcccggccg gagatgttaa cttttaagca aatctttttt  108300
ttttttttct tttttgagac agagtttctc tcttgttacc cagactggag tgcaatggca  108360
tgatctgggc tcactgcaac ctctgcctcc cagattcaag tgattcttct gcctcagcct  108420
cccgagtagc tggcattaca ggcattcgcc accacgcctg gctaattttg tatttttagt  108480
agagatgggg tttctccatg ttggtcaggc tggtctcgaa ctcccgacct caggtgatct  108540
gcccgcctcg gcctcccaaa gcgctggaat tacaggcgtg agacaccgca cccagcctac  108600
ttttaagtaa atctatttgt ttttgagaat ttggaatgta gtaatttggt tagtgaaagt  108660
tcgagcagtg agagaaacct acattcacat atctcaaaat caaaaagtac agaaagcata  108720
gggaaaagtc tccgtgctct tagccctcct caccaacagg aaaccaatat gattagtttc  108780
tttcataggc ttttagatta ttttttcaca ctcaagacaa tacagacata ttttttttcc  108840
ttattaacgt ttttctgcac tttgattttc tttttttttt tggtcgctta atacacctta  108900
gatatcagtg cgtttagagg gtccttgttg ttcttatgat tattatttag agacaggggtc  108960
tcactctgtc acccacgcta gaggacagtg gcctgatcat gcctcattgc agccttgaaa  109020
tcctgggctc aaggtatcct cccacctcag cctcctgagt agctggaact acaggcacac  109080
ggcaccaggc ccagctaaaa tttttaatttt ttctgtagac aggggtctc actttgtttc  109140
ccaggctggt ctcaaactcc tggtcttggc caggcgcagt gtctcatgcc tgtaatccca  109200
gcactttggg aggccgaggc gggcagatca ctggaggtca ggagttcaag accagtctgg  109260
ccaacatggt gaaaccccat ctctactaaa aatacaaaaa ttagccgggc atggtggtga  109320
gcgcctgtag ttccagctac ttgggaggct gaggcaggaa aatcgcttga actcagaagg  109380
tggaggttgc agcgagccga gatcatgcca ttgcactcca gcctgggcaa caagagcgaa  109440
actccgtctc aaaaaataaa aataaaaata aaaagaactc ctgatcttaa gtgatcctcc  109500
tgcctcagct tctcaaatcg ctggaattac aggagtgagt caccacagct gtccagctac  109560
gagattatta cttattatta ctactttgga ttttcaaatc aacttcatta aggtataatt  109620
tacacacaat aaaatgcact tattttaagt ggccagtaag atgagtttcg ataagtgtat  109680
ataactacat aagcatcact ataatgcaga cacattccct cactcacaga aagagccctg  109740
tgcccttcca gccaaacttc cccactccca accccagaca gccactgatc tgttgttctc  109800
tgtctataga taagttttgc ctgttctaga atttcatata aatggaatca tgcggcatgc  109860
actcttctgt gtctggcttc cttccctctt tccgatgttt ttgagattca tttacactat  109920
tttgcatatc aatagtttgt tccttcgtat tgctgaatag tgttcggtgg tttgagggaa  109980
ccacagtttc tctactcacc agtgcaccat agggttattt tccagttagg ggctcttata  110040
attggaacta tatttgcaca gagagagaga gaggaagaaa gagggagaga gatatttatt  110100
atagcaattg gctcacgtga ttatggaggc caaaaagttc ccgaatctgc catctgcaag  110160
ctggagaacg aggaaagcca gtggtgtgat tcagtttgag ttcaaaggcc tgagaaccag  110220
gagcaccagt atggaggtgg ctcgagctca gaacaagttg gggacaggaa agcaggacag  110280
caccccagag cagcccctca gcgacacctc ttcagtaaag caaggctgaa cacagagggg  110340
ctggcttcag tgtggatgtc aggtacagaa ggcagctcga ggagctactc tggcgttctt  110400
gcttactggt attcttacct cgaactggcc aactcctact taaactgcag gccatggctt  110460
taatgtcctg tcattcagag gctgtccctt acccaaagcc aggttagcat cccctgactg  110520
acacttctcc ctgcaacacg tttcagaagg ccctgtagtc gtccacttcc ctgtctctct  110580
ccccaagctc ctgagctcca tgtggtctgg gaatatgtgt gttgctcact tcctagcaca  110640
gtcagtgcta ataactgact gtagagggga cacagtcgaa aagccacatg gggatcagag  110700
tcatccttac acagttgaca cctcccaaac ccagatgagc tgtgtccaag tgcaggtcag  110760
aggaatttcc tgccgaagtc tctgagaaag ggttattta catttgagg ttgcagggga  110820
ggagatgagg ccatcaaacc aaagctgagg aagagggatc ctaggatgca ccgagcagct  110880
ccgggggcgc ctgacagcac ctgggaaaga tggcttctcc actggcttgt tggcgtcacc  110940
ctccagaggg gcatcaggaa atgtcctggg aaccaggcaa accagtgagc attaaccctt  111000
agaagtgctt ggcatgggtg acacccacca tctgtaaaca cgacttctcc caaggagtga  111060
cgcagaacag gatgtctgag ggaggcactc cgactccagc cttcagagat cgccagggtg  111120
gcacctggtg acgacaggct gatgcttggg tgccccagaa aaggtcatgt gtgtgaatgg  111180
gggccccaaa gccaacgctt catccctgac agcctggtgc atttagaggg gaacttttg   111240
tccctggca aggtgggtgg aatttcaggt tcataggga agggtatttt agctttaata  111300
gatattgtca aacagttttc caaagtcatt gtacacactc tgtgattcta cttatgtaaa  111360
gtttaaaaac aggcaaatca aatctatggt gttcgaagtc aagacagtag ttacccttgt  111420
gggggctgca actggtacag agtgtaaggg gggactgtag gatggtctat ttcttgatct  111480
gggtgtgttc gcttttggaa aagtccttga gttgcattta taatgtgtga actttttctgt  111540
atgttacact ttaattgaat gtacaaaaag tctcaggagg cctcagacca ctggaagcgg  111600
acacaactaa cccctctgag agcctccaat ccaagatgga catatgtccc cttggaagta  111660
tgcagaagca ggtgaagact cctaagccgg atattcccaa atccccccag tagccgcagc  111720
```

ttcagcagct gcttatggtc ctccctacac cctctcttcc ccagacagcc cccaaacatc 111780
tggctgcatt tgacttgctc tctccctgtc ccacctctgg atttagtcca tgttctccac 111840
cctccccact gtcagcaatg tagacaagac aaacgcttag ttcacgtgcc cacctactgc 111900
gtgccatgca cggggctggt cattgtgggt ggcaaatgtg agcaacacac gaagcctcaa 111960
ggagcagaaa gggacacaaa tcacttcagc gtaaggtaat ttgtgataaa tgtcatgtaa 112020
cttgcagccc ctggcccctt cctacagatg gtgtctaaga ataaacccca ctaacatgtg 112080
actcctctgt tctagcccag ctgtttgggt tgcaagaaag agactcactc cagttgcgtc 112140
ataggatgga gttttattgg gaggacattc tggacgggct cccagcaaga gtctggcaat 112200
ggagcatgaa aatgaatgag cctggaatga gggagggtgc ggcctcggct acacaaagtt 112260
caccccggcc ccaactgcct cccagcgtgt tagctcctgt ggcaactccc cacttctctc 112320
tctgtttttc aacccaaatc ctagagcaga gggctcttcg ctcctcacac catctccacc 112380
aggctgcagg gggagtcact agcccactca agagctctct cctgttggtc cctgattcgc 112440
aggggcacgt cattccttct tggtaactca ttctctttaa cagcccgaca cagggtctcc 112500
aggaaaagga caggagctca cacagtcatg aacagagatg catctggagc aggaataagg 112560
atgctgacaa catctgtgtc tgccctccac tcttgtaagt gccagtaagg tagtacccag 112620
tccctggggg tagggggggt ggtggtggga atgagggcat ctcttctttc aggggccaaa 112680
tctggcacaa ggatgtctgc ttaggcaact ccactgcctg gcatgctctc tccctaggaa 112740
aacacccaaac ctttttttatt tcctcagtct tagtgtgaga gtgatcacct cttccaggaa 112800
gcccacaacc agaatggcca ggggcacacc ctggccctca gtagatgggc actgagacaa 112860
aacatggcct gctggtggca ttcccaacaa tgtcaaaagt ctcagggatg agctcacagt 112920
tgggagtcct ttggaagtcc aattccaaat gtcctctgga ctcaaaataa aaactacatt 112980
tcccagtctc ccttgtagct tgcagtagcc atgtgacaat actccagcca atgggaagtg 113040
agtggaaaag tcctgtgcag ctttctgagtt gcgtccacca tgggcatggg tgtgcttcta 113100
cctccactct tccttcttct ggctggaggg catgtggaca aagcgggccc atggtgagcc 113160
tcacaatcaa aggcatcatt ttagggatag agaaaaggaa gatagaagga tcctgagccc 113220
caacatcata aaccatcgta acagccagac tagcgtggga gagaaaaata aaattctatc 113280
atgttgaagt cactgtattt ggtctcttgt tagagcaggc tgactgatac tctgttgaat 113340
acagaatgcc ttggtgagcc tctgaggatg caggatgctg caatccaacc aaagtccagg 113400
gtgactttcg aggagaagga tgtgaaaggg cagggcttcc tttgagggag aaatggagag 113460
aagggaggag atccagagaa gagagagcga gatcagctca gtgctcttca gtgtcctcca 113520
gggtcaacac cctcctgggc agacctctca ccacccattt ttgggggggc aagaggcttg 113580
gggccaggtc ataaaaagtc agatgtcaca gagctgtttt cgtagaggcg ggcaggactc 113640
aacactgcct cattcacatt cataggctgg agtcatcaca gagtctggcc actttctcct 113700
ccggagggca ggcaacacca ctggtcagcc caggggtggg gcacaggttg aggtctcaca 113760
tgtggctgca tcaggatcaa tgagcttccc acagagaaaa ccctggtcac aggaggcctc 113820
tgggagccag ggcaggcccc caggccccca gcctcaggtg gggtcccaag aggattggtg 113880
ggagtgtgca tggctggaag tgtgacttgg agccctggcc taccaggtga atcagctgca 113940
gaaggagcac accacaggag aggagaaact gactttcact tctgcccagg tgacgggcag 114000
gcttgggagt ggggaagagg cctcagaaca aaggtggggg agtcagaaca tacgtgtctt 114060
ggaaatggag gggatgctgc caagtccaga aagtctcccc tagtcctcta agccagccgc 114120
cagctgacac agggattccc tctgccccga gcagaacagg gctctcctat ctcctgaggg 114180
gctcctggtt ccctgcacac tctccccaac ctccccttgg tcccaggcac catcctctaa 114240
atgacagcag tctccagatg ccagttggca ctgtgggtta gctgggtatt atatctgcex 114300
gtgtgtgttg aatggatacc tgcgtggtct ctttctgaaa agccatctcc accgaatttct 114360
cgccccatgct ctgcttacaa acacgcctcc ttctgcaagg cccggagtgg actcagagag 114420
cctctcccct ccccacctcc tgccccattt cctctcccgc tccccacagg ctggctccag 114480
accacaagag cgtgggaacc tcatggagag tgggtgcttc ctctgtcttc ctcctagcc 114540
cttgctttag cacagccagg gcagagagga ggaaagaagg aaactacagc aaggaggatt 114600
tagggacaat tctagaaggg atttccaatt tggaggggca gtctgggaag taggcagcct 114660
gtgaacttaa taggaggtcc taaaggacct gggggaattt ggggagaaga cgaggtgggc 114720
tgccttaccc caatcttctg gcccactccc agctccagac ccacctccag gtgtagcagg 114780
cccccaggcc caacagcagg agcaggaggc ccaccagcag tcccaggacc cagagcagct 114840
gctggaactg atgcaggcgg tgcagggctg gaacacagag cgggactcag agcagccaca 114900
gctgcaggcc cccagtgctt ccttccaagg ggacccaccc aagatgacac cttctaacctt 114960
ttgctttatc gctgaagctc tccacacaag ggtgccccga gcaatcagtt tagagtcgac 115020
aggcaaatca tgctgcagca ggagggatac agggaaggaa gcctttgggc ctaagagctg 115080
ggcttttgtg cagagtggcc tgggagatgg agccccctcc cctcacctct gaccccaaag 115140
taggtggagg tagaggcaga gcccaggaca tttgaggcag aacagatgta ttcccctgg 115200

tcgctgggcc tcagcgcctc gatgtccacc ctcagggcat tgggggaagc caggacatgg 115260
atgtgtggct ctgcaggagc accctggggc tgactggagg ccaccagtcg actgccaagg 115320
tggagagtca ggctggcgag cggctcgctg tccactcggc aatccaggat gccccggagg 115380
ccaccctcag gctccacgaa gaccatcatg gtgggcgtct tgggagggtc tgtggggagg 115440
aagggagtgt ggtgattgca gaaaatgacc acaaatttct ccctccctgt acccatgcac 115500
agtgactttg ctgctcctcc cattaagagg cagaacctat ttcctcactc cttgaatctg 115560
tgactcagtt tgaccaattg aagaaagaag tgatgttgtg caacttcaga gccagacctc 115620
aagaggcctt gtagcttctg ctctacttgt tggaacacaa caatgtggga agcccaggcc 115680
agcctgctgg gcacatgtgg cccaactggc agccaggagc gtgcagtcat ctgagaccac 115740
tgggcaactg cagccacatg aggtgtgaac aacagaagaa ctccccagct gagcccagcc 115800
cacagaattg agcagataac atgacttttg tttgaagcag taagttttgt tgtggtcaat 115860
agcaatagct gactgataca gtgtaggcct tggtgaaggc tggagtggga gaccaagact 115920
gatgagggct tatcgtgtgc cagacacact cagcacgctt tatttctttt ggttttttct 115980
cttctttttt tttctttttt tttttttttt ttttgagaca gagtctcagt ctgtcaccca 116040
ggctggagtg cgttgtggtg atcttggctc actgcaacct ccacctccca ggctcaagtg 116100
agtctcctgc ctcagcctcc tgaatagctg ggattacagg tgtgtgcctt catgccgtgc 116160
taattcttgt atttttagta gagacggagt ttcgccatat tgaccaggct agtcttgaac 116220
tcctgacctc aagtgatccg cccacctcag cctctcaaag tgctgggatt acaggcataa 116280
gcccctgcac cagccattta tttcttatac aacttgcagg atgaggcgaa tgatgtattc 116340
cccatttttac aaggtcaccc aaccagacag cgggagagcc aggattccaa cccaggactc 116400
aatatccgtg aagccttcac tcttggcaga cagaagagga ggaagaactg aggtgggcgt 116460
gtgagatgtg gggagactaa ggcggaggag ggggttcaca ctcacagagc acacggagca 116520
tgactggagc agaggcagca gccccagtgg ggagctcagc caggcagtgg tacatcccag 116580
cttgagcacg agccacgtgg gtgaaggcga gagtgggcac aggctccgcg tgcagccgcc 116640
ggtcattcca gaaccatgca aaggtggagt tgcccacagg cccagggcca cccaggaggc 116700
ggcagctgag gttcagggca gcgccctcag gcacgtccag gccaggctct gccacccagc 116760
gtgcacctgc gggcggagga tagagagatg attgggatc tgtaggcctt gggggctgga 116820
gcctctgggt gggacctctg aggggcctct gcacattgtg ggaaggtctc agtctgactt 116880
ggtataggggc tttccaaggt ggaaccatgc cccctccagt gggagctgtg ccccctccac 116940
cagattaggc ttctcaaggc agagctttct cagaccagac agcccgctct agtgggagct 117000
ccagcccctc tcgtggactt ggacctgaga gcatcagagc ccctcctcct cccctctctt 117060
ccactcacct tctacctgca accgcccgat ggtgctgatt gagcccagca agttttgggc 117120
tgtgcaaaca taggtgtcat cacctgcagg cacatcttgc acctgcagcc gtagggcgtt 117180
tcgggccacc tggacatggc ctgtccctga tgccaagctg tggacccgc tgctcgtggc 117240
cagcaccttg ccatcatgag atagggccag ctcagcaggt ggctcactgt ccacagtgca 117300
ctgtatcaca gccatggatc tggccctgga gtcccggaag gaggacagga cagcgtcctg 117360
aggggcatct gtgggcaggc agggcacaga tggggacctt gcttaggcac cctgtactgc 117420
tcattgccta gctgcctggg gttggtcagg ctgaggcctc tggaccaatg gccacttcct 117480
agaagtgaca ccttccagg agtcctgtgg gcagagtgct ccaggcaggg cttataggac 117540
tgtctctttc tctagcacct atgtcctctt tccccaactg cccattcctg ggcccactgc 117600
agtcctttgc ccactccac cagagcccag aagcaccctc caccaccctc ctcctgggca 117660
gccctggcca aggaccctct gctcacagag gacttgcagg gcagcaggac gggagctgcg 117720
ggtgccctgg gcatcctggg cctggcaaga gtaggcgcct gcatgagccc gcgtggccac 117780
caggaatgag agtgaggcag ctggaccctc ctgcagccaa cgaccgttgt ggtaccaagt 117840
atagagtgtg ggtgcgtggg cagcagggtc cgcacaggtc actgtgatgg gggcaccttc 117900
aggcacggca gcctccggag ccaggatcac ccgcacacct gtgccaagga ggccaggatc 117960
agccgggccc agccggacac cacagtgggc ttccatccca gtgggcttgg cctaggccct 118020
gccttaccct ccagccgcag ctccagggac gtgttggcct ggcccagagg gctgcgggca 118080
gagcagctgt agaaaccctc atccctgggc tgtggccctc gcagctccag gcgcagggtg 118140
ttgggagcag aggctgctgt cgaggaggcc aagaggcgac cggcgtggct gagggccagc 118200
tgggcgggcg ggcggctgtc cacagtgcac agtaccaggg ccagctgccc gccatggctc 118260
tccaggaggt aggtcaggcg caggttgcgg ggcgcgtctg cagggcatga gaggcttaca 118320
cggagtcaca ggcggcagcc tgcaggaggc cagtttgcag gtggcattca aactcaggag 118380
ggccctggct ccccaccct atggctccca accacccagt ctgaggcact gctcctctgc 118440
ccagacagga ctcaccccag cgccccctac tcttaatgct ccttgcccag tgctccacta 118500
gctactgggt accgagttcc ccactggaca cctgtcgggt tccggccatg ccgtgatccc 118560
tgtgggcttc tgtcattcct gtgagtccca ccctgcatcc agccagactc acagaggacg 118620
tccaaggtga taggtctgga gaggcggggt gcccgaccag gggggcccac accgcagcgg 118680

```
taggaggtgg catccctgac tgtgacgttg ggcaggggga tggagtgggc atccaggcgc  118740
tgctgcccat cctggtacca tgtgtaggtg agctgggccg ggtgagtggt ccacacaagg  118800
caggtcaggt tcaccagctg cccctcccgc acggtagccc cgggccacac ctgcacattc  118860
acagctgggg agagggaggg cacaggacac cagtgagggt cttgaggctg tgtacagcag  118920
gccacctgtc tccatgtggg tgagctactc ctactgctgg ggagcccctt ggccttggg  118980
agccttgggt ggcccaccta taaatgtggc ttagaactca agcttgggaa tagcccactg  119040
gctcctgagt ggtcccaagt agagttccac agagtcctgg aaagccctga gcccctcct  119100
gaccctggct gggggcaaat ggggagacca cagacctccc ctccctgct gcactttctc  119160
ctgaaattcc ctgtttagtt ttatccactg ggcatacttg taaaatttgg tgtttataaa  119220
aggttctcct aagaaactca agtctggagt ccaccatcgt taggaagggt gggaatgggg  119280
actattcccg tgcccccagg cttctagaac cctgtcccac ctcctctcct cttttaaagg  119340
acacacacac acacacacac acacacacac acactgacct tgagcgtcga  119400
agtcagctga ggccgaggcc tggcccaggg tgttggaggc ctcacagata tagacaccct  119460
catcctccag catagccccg tggatctcca gacgcagtgt gttgggggcc acagccacat  119520
gcagcctggg agagctgcct tcgggtcccc ccacaccttg tagggtggag gccacaaggc  119580
gatccccgtg gagcagccgc agctgggccg gagggtcact gtccacacgg cacaggagga  119640
ggcccagtcg tccaggacct gtgtccatca gggtagtgag tgtgacgtgg cgtggggcat  119700
ctacacaggg tggggagtgg tcaggaccca gccaggggag tccctcatcc agggctctgt  119760
catgtgacac agcccaggac tgggggactg cattcctttcc cccacacctg gatgggacaa  119820
aagtccttac aggacacgtg gaggctgatg ggtgcagcta ggctcgtggt ggctgagcct  119880
ggggcctggg cttggcaatg ataggcccca gcttgtgtca aagttatggc tgcaaagcgg  119940
agcgtggccg aggtcgactc ctggaggggc tggccatccc gatacccaacg atatgaggtc  120000
ccctctggga ctcctgtggg tacctggcag ctcaggacca cagcctggcc ctctttgagc  120060
tcaggtgatg gtgacacctg gacccaggct cctgcagggg aaaaccaaga gcaggtgagg  120120
gctctccacc acacctctca cagtctggga ccatgtgcgt gtccacctag gactacacaa  120180
cccaacccca tgtgctggag ccgcagcccc ttccagacca ccgccagggc ccactcagcc  120240
ctatgccttg gcccctcctg ctccccactc tcctgcacag gctccatcct ggcatttacc  120300
tcccaccacc tggtgggatg gttttactgt gtcagtcata tctcgcctac caaagcgtaa  120360
gccttatggg cactggactt gtgtgacctg taaccccagt tccaggcact gtgcctgcat  120420
gtgttagctc ctgacaaatg ttggttcaac ccataaagta ctgaaaaggg agggatttag  120480
atcatcccag ggccattgtc ctaactagga tctggactca gcatgggtga ccgagggctt  120540
ggaagggaat gttagcagct atgttatctt gagcgctctc gccaggccag ccctgcatcc  120600
agactccagg ccacaagagc acaggacctg gggaccaggc aaagggcagc tcctcagtgg  120660
ccccctgggtg tgaagcagga gaaccccagg ttgcagggag tgagatggag ggacagctgg  120720
aatgctaagc aagaacacag accatgcctg agaccacagc tagcagggtc acgcaactgg  120780
ggaaaagctc ctaaaactca aaccttcaat ttcttcctgc gaaataggta tgctaagtaa  120840
gaaaagatac acagaaccaa ggctcaaagt aaatgtccca aaattggtgc tgtcggtcac  120900
cgtggtggaa gaaacactca tgttcctttg accttcgcat tatgggcatt atctttcctt  120960
tttcctggtt tatttgttta gggagaattt ttttttttta agacagagtc tcactctgtc  121020
atccaggcta gagtgaagta caattttggc tcactgcaac ctccatctcc caggttcaaa  121080
cgattcgcct gccttagcct cccgagtaac tgggattaca aatgcccacc accacaccta  121140
gctaattttt gtatttttag tagagtgttg gccaggctgg tcttgaactc ctgacctcaa  121200
gtgatctgcc cgcctcagcc tcccaaagtg ctgggattac aggcatgagc catggtgccc  121260
ggcctgaggg aggatttttta tagagactat atatatatac acacacacac acacacacac  121320
acacacacac acacacacac acgtatgtgt atataaataa agaatatgaa tatattatgc  121380
ataagaatac acatаatgta tatttgtatg tgtatatact catacataaa catatatgca  121440
taatataaat atacatatgt atgagaatgt ttactatgta acaaaattat atgatcgcaa  121500
aacaagttat ttcagaaagt gctcccacca agcaagccac tttgtgaatt gccattgcct  121560
cctagtggct gctgcagtta ttacaggtga aatatctag ctggaggcaa agggaggcct  121620
tctgctggct ggctggaaac tgcccttacc aggactgaaa aagacatatt tctgcacaaa  121680
attcacagca cccagcccaa agtctgacca gagtagtccc cagggcatca gagtctacca  121740
tatcttcaga agactgacac tcacctcgga cctggaagaa gagtgaggtg ttggatgatc  121800
caagaacatt tgtggcctca cagcggtagc tgccagagtc cccaaggccc agttctcgga  121860
cctctaactt cagggagttg gcctcagcct tagcctggaa ccgaccatgg gatgggacct  121920
ggggacccag gctggtggcc aggaggtgct ccccatggaa caaggccagc aaggccaggg  121980
ggcggctgtc cacagtgcag atgaacagag ccatgtggcc ctggcccatg tctaggaggg  122040
ctgacagctt tggacggtcc gggggatctg caggaacaga gggagctgag gccacccagc  122100
ctagctcacc acattacaac tgccacacta tgtcccccac ctcctgccac acacacagcc  122160
```

taagccatgc tctttcctcc ccaaacccca gcccggcccc tgcttctccc cagaccaccc 122220
ctccacctc caagtcccca ggctgcccat gccagtcacc cacagaggac actcaggagc 122280
acgggagtgg agagctgggc accagcctca gtcaggatgc ggcaggcgta aagggcagca 122340
tcagttctgg ccacgggcag cagtgtcacg gtctccaggg gaccctgggc ccacagcacc 122400
ccatttcgga accaggagaa gttagcaggg ctgccagcag cttcccggct cacgttgcaa 122460
gtcaagttgg cttctgtgcc ctcctgaagt gtgtgtgatg gtgcaatggc caggacagtg 122520
gctggagagc aggcggcaca gcttactgac cacccccggc ccccaggagc caggggtcca 122580
gccgcccagc ctggaaggag caggaaggag gccccctggg gtgcccacag ggttgggggag 122640
aaaagcaagc tagctcacag ggcagcctag gagaagtggg ccctggggac tgtgggggcc 122700
ctgggcagag agggttgcag tacagggaag gaggacaagg cagcccaact gtcccagctg 122760
gggagtcctt cctcagagac cagctgtgtt gcctatcccc ggcctgaaca gagatcatgg 122820
gaaggagcag ctccgctctt cctgaatgtg gaggagggca gcgaagggcc cccactgctg 122880
cacagagtgg ttttgcctga ttagatcctc ctcggagcag aacagtccag agctccagcc 122940
cctgccccca ggccacccat tccctgcctg actcaccctg gccattgaag gtggctgagg 123000
tggaggcgtt gcccagggca ttgctggcct cacagaggta caagccctcc tcttccagca 123060
aaggggttgg aatctccaca cgcagcaagt tgggggcttt ggtgaccttc atgcgtgggg 123120
aacagccccc acaggtgctg cagccacccc ctgatggcag ggaagtggcc acaacacggt 123180
ccttgtggag cagctgcagc ctggcggggg ggtcgctgtc cacacggcac aaaaggaggc 123240
ctcgccgtcc agccccggcc ccagcggcat caaggtccag cctggtggtg aatgttggtt 123300
gtcgaggggg gtctgcaggg aggaagaaca tgggcactca tcccacggat gctccagggc 123360
cccacaagcc tggctaggct cccagaatac actggacaaa ggcagatccc gaaggctgcc 123420
ccaagcagct gtgcagactg tgcactgcac aagggcagcc agaccagggt gggtggaact 123480
caagctaggc tcatgctccc caagctaagc tgtgccctga tgcctactga gtctttcccag 123540
aagaaggagc accatttttct agctcagaca aaggtgctgt atgggctggc tgccaccttg 123600
cataagtccc atctgctgct gagcagggtg cccacctagc aatccctggg ggtcatgctg 123660
tctgctccca ccctgcaccc aatgccttac cacggagcct cccctcaaga tctgccctgc 123720
agcttatctg tgatctccaa gccagctcct gtgatactag cgaatgcata gaatggcctc 123780
ttcctgaagg cttctggaga cagttggcca aaagagagca atcagccaag gcccccatgt 123840
gatctcactc agacaccaga aaactttgca gaggcagctg ccctctgaca gttccgggac 123900
gtggctccgg cacacatgtg tcaggggaag cctctggaat caggcccttg gtcttacacg 123960
gagcctcccc gcttggcgga tgcagagggg ctgtctgtcc ctgtgctgag gggctttgcc 124020
ttggtgtcta tgggagccca gcacagcctg tggggcatgt gcacaaatag aggagtgtgg 124080
tgtcccaggg ctcacccatg aggacaaagc atggatgtgg tgcccatgct gagcttgagg 124140
ctgggacaga ggagcccaca gggctggcat tggagggtaa agacatgggg aggtagagaa 124200
ggccccagcc tcatttccta aacttcagcc ccacgtggaa agacccactg tggccaggtc 124260
tgtgacccag ccctcccgat atagaccttg gggcagggca ggacagggct gggggccta 124320
gaggaggtgg ggtggctggt gggtcccggc aggaggctgc aacaggtggt ggctgctcac 124380
agagcacagt gagaacagct ggcgaagagg ggccactggc actgtggccg tcccgggccc 124440
ggcagtggta tgagccggcg tcagtgctgg aggccgcggg gagcaggagg ctgctgccgg 124500
gaccctcgtg aagcagggct ccattcaggt accaggagaa gcgggcatca ggtgtggggc 124560
ttaggccgct tctgcagctc agtgtcactg cctgtccttc caccacctcg gctgccgggc 124620
tgatgaggag acgggcggct gcggggagag gaagaggctg ggaagggtcc ctcctctcaa 124680
ccccacatgc tgccctatat agaaagcctt ccagggttct cctttcccca cactactgta 124740
ggtagctctg ggctttgtgg tgcatcagga gggtttgccc tttaatgcca aatcagatct 124800
attggtagta gatggctgca gcatggttga agattcagag ccagagccca ggcttatgtc 124860
caacacctgg cttggctggg catggtagct catgcctgta atcttagcac tttgggagac 124920
tgaggcagaa ggatcgtttg aggccaggag ttccagacca gcctaggcaa catagtgaga 124980
ctccatctca aacaattttt ttttttttga gactgagtct cactctgtct cccaggctgg 125040
agtgcagtgg tgtgatcctg gctcactgca accttctgcct cccaggttca agcgattctc 125100
ctgcctcagc ctcccaagta gctgggatta caggtgtgcc accacaccca gctaatgtta 125160
tacatgtagt agagataggg tttcaccatg ttagccaggc agatctcgaa ctcccgacct 125220
ctggtgatcc acccgcctca gcctcccaaa gtgctgggat tacaggtgtg agccactgtg 125280
gccagctttt tttttttttt tttttttttt ttttgagacg gagtcttgct ccgtcagcca 125340
ggctggagtg cagtggcgca atctgagctc gctacaacct ctgcctccca ggttcaagca 125400
attatcctgc ctcagcctcc ctagtagctg ggaccacagg tgtgcgccac cacacccggc 125460
taatttttgt attttagtg gagatggggt ttcaccacgt tggccaggct gatctcaagc 125520
tcctgacctc aggtgatctg cctgcctcgg cctcccaaag tgctggaatt acaggcatga 125580
gccaccatgc ctggccacaa tttttttttt ttaattagct gggtgtggtg acatgggccg 125640

tagtctcagc tatttgggag gctgagatgg gaggatggct tgagcccagg agtttgaggc 125700
tgcagtgagc catgaacata ccattgcact ccggcctggg caacagagca acaccctatc 125760
tcaaaaaaca aaaagaaaaa cctggcttga tcaattagct accatgccct caggaggagg 125820
gaaggacagt gcacataccg aaagttggaa gaccgtactt ttctttttttc tttttctttt 125880
ttttttttt ttttgagaca gagtctcact cttgtcaccc aggctggagt gcagtggcgc 125940
tatcttggcc cactacaact tccacctcct gggttcaagc gattctcctg ccttagcctc 126000
ccaggtagct gggactacag gaactcacca ccatgcccag ctaatttttg tatttttagt 126060
agagatggga tttcaccatg ttggccagga tggtctcgat ctcttgacct cgtgatccac 126120
ccacctcggc ctcccaaagt gctgggatta caggagtgag ccaccgcgcc cagccagaag 126180
accctacttt tctatttggc ttcccacatc tgactgctag catagagcct gctcccagag 126240
tttcataatt aaaaaacaat gaatgcttct gagggactct ccaagtttag ggtcagggta 126300
ggtgcaaaag gaatgatgtg acctgttgtg tttccctttt tcccttgact tccaggaagc 126360
tctgccgttg ggtcactgca cagcccctgt cttttatgtg gcgtagccag ttagctcagt 126420
cctgcggttg agtccactag acttctagaa ggaacagact ggcagcaggt cctcctcagg 126480
ctccctccac tctccctggc tgccagtgcc catcttacca ttggcatgga agtccagggt 126540
ggaggttgca tttccaagag agttggtggc tgagcacttg tactccccac tgtcagtttc 126600
ctccaggtct cggatctcca ggcgcaggga gttgggacca gaggtaccac tgaagcgtgg 126660
gctgtgatca ctgtccccgg aggtggaggc caggatatga cccccatgtg acagcaccag 126720
tgtggccagg ggctcactga ccacagagca gtgaaggatg cccacaagtc ccgcctgggt 126780
ctccaggaag gctgtcagga ctggagtgag aggcgggtct gcgtggagac gagaggtggg 126840
cctgtcaccc tcagacaagg gcattccctg gataccctga tacaacccgt gacctctgca 126900
ccgctttgtc ccacactgcc ctgcgagaag ggggtgatcc caaagtgcct gagtgcctgc 126960
tgaatacact tttgtccttg gctgggctgg gtacgtcact ctgttgtccc agtcagtgtt 127020
caaggccacc ctgcaagtgg ggataaaagc cccacttcaa agatgagaaa actaatagag 127080
agacctggtg agggacagca cctcagccag gtgaccaaag tgagcatcat cagcaatggg 127140
acaagctgac acagagtgcc tcctgacagg gcagagcagc atgtccgcgg ccttcccacc 127200
cagagggcat ggtctcaggc cattcaagtc aggcaaatgt ggagtgaggg acctcctcac 127260
aacagcaggc ctgcactctg caagtttcaa cgtcaagaat gacaaggaaa gactgaggaa 127320
cagtctcaga ctaacggaga atgaagagac gcaacgaccc aatgcaatat gtgaactgtg 127380
attgtattct ggaccagaaa aaaaatggct acaaaagaca gtattaggtc cactggtaaa 127440
atgtgaatat agattatagc ttagataaca gtcttctatc agccaggtgt agtggctcat 127500
acctgtaatc ccagtacttt gggaggccga ggtaggtgga tcacgtgagg tcaggagttc 127560
aagaccatcc tggccaacat ggtgaaaccc tgtctctaca aaaacacaaa aattagccag 127620
gcaggatggt gggtgcctgt aatcccagct actcaggagg ctgaggcagg aggagaatcg 127680
cttgagcccc agaggcggac attgcagtga gccaagatag caccattgca ctccagcctg 127740
ggcaacacag tgagactcca tctcaaaaaa aaaaaaaagt cttctatcaa tgctaatttt 127800
cctgatcatg atcattgcat tgtggatatg taagagaatg atcttaggaa tttagcggta 127860
aagaggcctc atgtctgcaa cttcaggaat ataaatatgt aggtagatac ataaataaca 127920
tatgcatatg tatatagagt gtccatatat gtataagtgc acatgtccac atagagtgga 127980
tgtgcatata cacaagtgca cctgtatata tgcaagtcta tatccataca tttatatgta 128040
tgtatgtgcg tgtgtgtgtc tgtgtagaca gcgagaaaga ttaagcaaat gtgccaaaat 128100
gttaataaat gggaaatcta ggttaaaggt atataatcat tatttgtctt tctctgcaac 128160
ttttcataag tttaaacttc caaatataaa atagggagga actagggagg tcaaagcatt 128220
gcccaggtgt gcagagctgg gacatgagct caaggccacc tccaggtaag tggccttgaa 128280
gttcccatgc ccaggacccc aacccttcct tggggctcca ccatctggtc ctgctctgac 128340
tgtgtccagt gccaccccac cctggcctct tacggttgac taccacgctg acagggccg 128400
agcgctcgct gccatggacg ttctgcacct cacagaagta gaagccagta tcagccctag 128460
tggccaagtg cagccggagg gtatgggagt gggcatcctc cagcaggaca tggttcttgt 128520
accagctgta gcggagatca ctgggtgcct cgttgggtgt gttgcagact agtgtcactg 128580
tctggttctc caggatggga cctgctgggc tcacctggac ctcagccact gcaaggcgag 128640
catagggagt gctggggggt cccagccaac ttccagcccc agccccatac agtccccggg 128700
tctcagccaa tcagcctcaa tctctgcaca tcctacacca cccgcctgct gctacagggg 128760
agcctcctgg agtgctctgc atctctttgt cctgctcacc aggatccccc tgacacccca 128820
cccttcgtgg gggtattgtc acctgtctca tggtaaggca gggctgggac tccacacctg 128880
catccaggaa gcactgggtt atgccagttg ctggccctgc cctgccctgt ctccctccg 128940
tccctgaggc ctgagctcct ccctattctc tggccaatac gcaccttcc caagaactca 129000
ctgaagatgt ggaggctgat gggggggtgag accaaagagc ccacgccgtt ctcagcttgg 129060
caggtgtaga cgccagcatc gctccaggct gcctggggca ggtgcagcac accagtcttg 129120

gtttggaggc gtaccccatc cttgagccac ttaatggaac tgactgcagg gtagctgctg 129180
ttcacctggc aggtgagtgt gaccagctca cctggaagga tgttcctccc cgaggggctg 129240
aggaggatct tcacacccct gggggcatct gcaagtcaca gtagggggta ttgggtaagg 129300
tgcttgggga gggcagagga tggcacactt cttcttgccc ccctttaaaa gctcagtcct 129360
aaggaagtat gcccagataa aacagcagtc cccttcaatc ctcacccagg gcatgctctg 129420
tctgcccatg tccgtccctt tcccgccccc tgcgcctgat gcattcctat gcccattgag 129480
agctgatcat gtgacgcttg gccagcgtcc agcctacccc accagctgta gttttctgct 129540
tcccaatgct gtccattgct cctgctctat ttgggatgag ctccacacac agggtcatgg 129600
gtaccccact gctagcttta gtggcctgtg gaagctattg gtaagggacc aactacctag 129660
tgggaggggc ccaaaggcag catcaaacta gctctgaaaa tagttaccca gtttgtaagc 129720
aagaggccaa caacacaaag aactgcattt ccttaaatct tgttccaaag cctctctctg 129780
tgtattcaag tgttttattc ttattttttt agaaagagga tctggctcag tcagccaagc 129840
tggagtgcag aggcacaatc atagctcact gcagcctgaa actcctgggc tcaagtgatc 129900
ctcctgcctc agcctcccga ggaactggga ctacaggtgc aagccaccac atccagctaa 129960
tttttgtttt ttaatttttt tgtagagaca gggtctcact atgttgccca ggctggtctc 130020
gaactccttg cctcaagcaa ttctcctgcc ttggcctccc aaagcactgg ggttacaggt 130080
gtgagccact gtatccggcc tcaagtgttt aatttgtgcc aggcactctt ctaaatcctt 130140
gacctgggtc atctccttta tttgtttttg ttgttgttgt tgtttttttgt ttgagacaca 130200
gtctcactct gtcacccagg ctggagtgca gtggcacaat cacaactcaa tacaactcca 130260
cccccggggt tcaagcaatc ctagtgcctc agcctcctta gtaactggga ttacaggcat 130320
atgccaccac acccggctaa tttttgtatt tttagtagag acgaggtttc accatgttgg 130380
ccaagctggt cttgaatccc tggcctcaag tgatccaccc gcctcagcct cccaaagtga 130440
tgggattaca ggcataagcc accgcgcccg gcccatctcc tttaatttttt atcataaatc 130500
tgtgagacag gaaccatcta ttgttatctt cgtcatagac tgagaaaaca gagccaggca 130560
ggaaagggat aaatcccacc tcccagcat cctccagcac ggggtaaatc ccggggcact 130620
tgctgccaac cctgaagctg catgggagct cctgttcccc aaccctttgt gtctccctttt 130680
ctctgcccag cctggcctca aggacaagcc ccttcgaagc agtaggaggt tgaggggacc 130740
atttaacgaa gtccttgggg ctcagcagtg tctctccact tgccctaccc tggaggccca 130800
ggagcagcct ggttttgcat caggagcaag ggttccgttt ctgtgggctg gagaggggct 130860
ggttttctgtc aggagcaaca gatgcgctca gccacaaggg tgtgtcccca gacaactcac 130920
acttcacttg gaggtgaatc tcgctctgag ccctgtgatt ggccacggag agctggcagc 130980
gcaggatccg gccgtggtcc tgccaggaca tggccatgtg gagggtctcc aggtggccga 131040
cgccggtggg ctcaaacttc tggctgttga aggtgacaga gcgagcaggg tcctggcctt 131100
gccactgcag tctgacctgc tcctgcaggc atacgtaggg agtggagcag ttgaagtcca 131160
cctctgtgcc ctcgagaagc tccaccgggg aggcaatggt gggcaccctg ggctcctctg 131220
aggacagaga cagcagtgct caggacccgc ttttgccacc cctgagatcc ctcgccctgg 131280
aaaccccagc tgaggagaga gccctgggga gggggctttt aggggaagga aagacgcttt 131340
ctactccagc cccacttggg tgaatacaag ggagaaccag gcctgggcct acgccggggc 131400
tggaacagag gctgagactg gctggggtta gattcaggac aaggggctggg gctgagagcc 131460
aaggggtcca gaagcagctt gggaatccct cccgggggcc agccaggcca ccccacttat 131520
cacctgttac tgtgaccaag gtgcctttca catctgacca gcggttgacc tcactgatct 131580
cgaagcggaa gttgtaggaa ccagagtcct cgggctgcag gtccttcagc agcaggttgc 131640
acaccctgtg ctcggggttc cccatgaact cggtgcggcc gcggaagcgg gcctccacca 131700
gcttggggtc cgccgagtgg ctcaccacct gccgctggcc cgagtagtcg tagtaccaga 131760
tggccgtgat gccgtcgggc acctccacgt cggcagggaa gctgaagatg caggggataa 131820
gcaggcaaga ccccttcaca ccctgcacgt cctggggact ggagacgccc catgaggcct 131880
ggcctggggg aagaacggca gggggacaga ggggagggtg atacaggcct cagggtgcca 131940
cagagccctg cgacctgccc cagagaaggt gccccagctg ggctcccaaa ttctgccctg 132000
ccccgagaaa tgcacactta gagcagccct tctcagtgcc ccaggggtca gtccactgcc 132060
cgaggctgct cagaggtttg gtagggtggc tcgaagacag atggcagctt cctgccagc 132120
tcctggccac tgcccgattg ggccctccct tgacctcagc aaccaaacat gtgacccagg 132180
catagtctaa tctgccaagg gctggactta tgaaggctgg accctggaag acaggcacta 132240
ggcccgcaaa gcttacctgc tgggaagaat gaggccagga ggagaagctt gggcaagaag 132300
cccatagcag gttcttgtgc tgctcctgtt gcctaagagg gtggtgcgca ctgcgctggc 132360
tgggctcaca ggggcctcca gggacacctc tgggcacttt agccccagca cctgctagaa 132420
gtccgagcct gtgtccccac ctcctctgct ggccaaccca ataagagggc agggctctta 132480
aagaccttctg agtcagacac cagcagagag ccaggaggcc acgttcccag ctcaggctgt 132540
gcccaggaat gccctcactt ggtggcctgc ctcagaaaag cctgtgtgtc ccttggccct 132600

atcccaagtt ctgctttccc agcccctcaa ggataccacc ctaaggcaga tgaacagctg 132660
tttctccctc ttccccactt ccctgccccc tccccaccac ccaaaccaac aggaactgga 132720
gcccagagat gcccagttac tcactccaag acacccagct agaatgatgg tttcttcctg 132780
aggcttgtct cctaccacct gccttactaa ctatagacca taatggggct ttactgaact 132840
tgccgaagtg ctgcctttaa cagtcactcc cctgctcaaa aaccttctgt ggctccccat 132900
tgcccgtgag atgtgaaaag tcctcatttc ctgccccctg ctctgtcccc attccctgct 132960
ctccgcagac ccactctggg ggcagttctg tctgctcaag ggctccctag ctgcccagct 133020
ctatctccac cacagataat ctttgcctgc tgaaacctta ttcaaccttc aaggagcagc 133080
atgaatttgg cttccagctg gaactttctcc tttgaggttc ctgtagctac cccagagcta 133140
tctctatttt ccttgccttg ttttttacag cttgtgagag cccatttctc aggacctaga 133200
actgaagata tgtgccccat agcagtgcgg agcctaccag gcattcagca aacccttag 133260
tgactaagag aggggtgagg tctttagggg ttcagagctg aggttcagag ttggagtggg 133320
gaggtggcaa ggcaagtcta ggtttgaaag gtagcatgag agcgctgtgg aacacatacc 133380
ccacaaatat gagctcaatg tgtgcggagt gtaccatatc caaaaaggca ggccctcaac 133440
catggagtgc ccctggtcag ggagtgtcta aggggtacca tagacctgag cccaaaagga 133500
agagatgcca gaaacacata taagtgaaac tataaaactc ttagaagaaa acaggtgaaa 133560
atcttcatga ccttggatta ggcaatgctt tcttaagtat gaaattaaaa gcacgaaaaa 133620
aaaaaatagg taagttggac ttcatcaaaa tttaaaactt ggccagacac agtggctcat 133680
gcctgtgaac ccaacacttt gggaggctga ggcaggagga tcactttagc ccaggagttc 133740
aagacgagcc tgggcaatac tgcaagactc tgtctctacg aaaaattaaa aaacaggcct 133800
gtggtcccag ctactctgga ggctgaggtg ggaagatcgc ttgagcccag gggaggggtc 133860
gaggctgcag tgagccatga ttgcaccact gcactccagc ctgggtgaca gagcaagacc 133920
ctgtctgaaa agaacaaaca acagctgggt gcggtggctc acgcctgtaa tcccagcact 133980
ttgggaggct gaggcatgca gatcacaagg tcaagagatt gagaccatcc tggccaacat 134040
ggtgaaaccc cgtctctact aaaaatacaa aattagctgg gtgtggtggt gtgcacctct 134100
agtcctagct actcgggagg ctgaggcagg agaatcacct gaacccagga ggcggaggtc 134160
acggtgagcc aggatcacgc cactgtactc cagcctggtg acagagtgag actcttctgt 134220
ctcaaaaaaa aaaaaaaaaa aaaaggatat gaatcaaagg acactatcca gagagtgaat 134280
aaaaggagga caacccacag aatgggagaa aatatttgta aatcatttat ctgataaagg 134340
actaatatcc agaatatata aagaattcct acaatgaaca acaacaacca ccaaaaaaac 134400
catgaaatcc aactccaaaa atgggcaaaa cacttgaata aacatttctt caaagaagat 134460
atataactgg ctgataagga catgaaaaga tgctcaacat cactaggcat taggaaatgc 134520
aaatcaaaac caaaccacag tgagatacca cttcacatcc gttagaatgg ctattcacaa 134580
acaaacaaag caacacagaa aacaataaat attggtgagg atgcgaagtt gaaattcttg 134640
tgtattgctg gtgggaatat aaaatggttc cgtcactgtg gaaaacaatt gggtcattcc 134700
tcaaaaagtc aacataggat taccatatga tccagcaatt ccactcctag gtatataccc 134760
aaaagtactg aaaacaggga ctctaacaga gtacaccaat gttccacggca gcactattcc 134820
actaaaaggt ggaaacaggt caagtgtcca tcagtgaatg gatgtggata aacaaactgt 134880
ggtatgtaca tacaatggaa tatcaatcgg ccataaggag gaatgaattc taacatatgt 134940
gaaccttgaa aacattatgc tcagtgaaac cagccagaca caaaagggca aatattgtag 135000
ggttccaatt acatgaaata tctagactac gtatattcag agactgaaag tagaatagga 135060
tagaggtaac caggggctgc agggaggggg agctaatgtt taatgattgc tgagtctctc 135120
agataatgaa aaagttcttgg aaatagtggt gatggttaca caatattgca aatgtaccta 135180
atgtcatggg gtgtacactt aaagacagtt aaaacagtaa attttacatt atgtatattt 135240
caccacatac acacccatgt tgccaacttt gcaatcctcc ctggtcctaa atgctgactt 135300
ggccaagtga acgaggaggc tggaagtggg gacaggaaac tcatgacctc ccagctccca 135360
gcccatccgc ctcaggggct gggctcagca gattccaatg actaccaggg gtcacacctg 135420
ggaagggggt gagccgaggc ccagggccag tcaggctgac caggtgggac ttagcctgct 135480
gcagaaggca gaaggtgccc cagcaggggg cacagtacag ggcgggattg ggacaggaag 135540
gacaccgctc cccaggggac ccagccctct cgcaggctgc tggagtggac tgatctggcc 135600
atttatggag gcccaagggc tcatctccag ttctctagga agccctaggc ctcctcctct 135660
tctgggaaga tgcacccca gcctccacac caggttcttg gccactggag aatgatatag 135720
ctggggccct gggacctgga cacctcaccg tgaagaaaag cagcctgctg ggcacactgg 135780
gggtcagatg tgtccctggc cacaggggat gtcagggtca gctctgctat ggccagggca 135840
gctatcttgt cccagctccc ctgttcctcc catttggggt cctgaaaagg gcaatcgtga 135900
acctgatgga agaatggtgg ggttctggac acagcgaccc tggaacaggg cgcgggggag 135960
gaccctttcc aggaccactc ccatcacata atgtagaggc cacctatgct tagccccggcc 136020
ctaaccccaa aggggtcagc cccaccggaa tccagcctat tggctcagcc tgtcaccaca 136080

aaggccagct tcagcccaga taactgttct ggaaacagaa agagcaggga ccgctcagaa 136140
aggagatctc tgtccctgtt tgaaagcctg gagttgaggg gacagtgccc cgcccccgc 136200
cccccgcaac ttgggttgca gctgtggcct agtgagcacg cagcgccccc tggtggtcga 136260
gggggaattg cgggtcccgg gaaagggggc ggtgtgccag caacagggag caggcagctc 136320
tgcagccctg aaccatccct cccttgggtg actcttttgg aaatcattgt tccccagaca 136380
ggaggttcct gaggttcata cttgggtctc caagtcttgg gtgctctgaa gacaggattt 136440
taaatcccca ctcctactat tggtatgtgt tgcatcaggg tggcttgagc tggcctggta 136500
cacagtgggc actcacgttt gctgcctgtt tgagaccaag tgcctcagga ggtcttggag 136560
ggttggctgg ggccccaagt ccctgacctc tgattccaga ggccaagttt agctggggaa 136620
gaaagggcag aggcagtttc cctatggaca gctaggcccg ggtgtaggat tcagtttctg 136680
tttcctgaca ccaaggcttc tccccaactt ccccattggg ctagagaagg aagaacacag 136740
ggtgacatgg ccagctggag gttactggcc cacagatagg gagtcagggt acggatgggc 136800
aattcctgga gcagattatg gtcaaaatag tggaaatccc caatcacagg ccaaatgttt 136860
aattctcaga gccatagaat ccataactaa tgcttattgg ctttgacatg ggcagtagaa 136920
atttcacact tcattcctta atctggctct aaatgcttct ggctggagtg ctcactctcc 136980
aaactgtgct ggacagcacc agaagccctc ctgtggacgg acgaagtggt gatggatgaa 137040
gtggaattgt gctggggtta gagtaaggag agattatcgt tgggctgggc tggggctgag 137100
gtcagggtga tgatcaggtt ggaattctgg aagcaaatta aggctgggat tggggtggac 137160
attgaggttg agtgatgggt gggggtaagg gtgaaggttg gagttgggtg caggtgatgg 137220
ttaagatacg gtggaggctg ggttgagatg aggatgatag agtcggagtt gtggttaggg 137280
ttgggatgat ggatggttgg gattagatga gatgagtaaa tggttagggt tggggtgcaa 137340
gtgaggtgag ggtgagataa ggttggaata ggggctgggg ctggggctga ggtagggtca 137400
gagcagggtg atggtcggga ctgggattgg gatgcaggtt ggaaggattt gggggtggtg 137460
gaagggtttc agttgagtcc atctttgatt agtgtcttgg acttgggttg gtttggggtc 137520
caccactcgc acccagatgg agcccccccc cgacccctgc ccctatcccg ctcagccagt 137580
ttcagcccag ccccgctcct aatgctccac tcaccctctg ggcccaggga ccagggacag 137640
gggtacctgc tccacagaag gaagtggctg cggcggtgct ggacctgcgg agaggagaac 137700
aggaaggacg gccaagagct cctggtgcag ctggctcccc agggctctgc cggctcaaga 137760
gagaaggatc ccgtatcagg ggctgcttcc tctttcccaa agcctcagct ctactgtcca 137820
acccagaggc tggtcaggga ggcagctgca ggccttgcgc aatgccaaaa cgggaaagac 137880
ctccataggg gaaggccctc ggcaaggcca gggacttagg gactccagca agcagaagtg 137940
ggaccgctgc aacgctggag cctccccagg caaagtgaga aatggagtgg gggactccca 138000
ttcaccagcc aaatccacac cccactctct ctgagcccct tagggaggct gggggaggtg 138060
gaagggggct tcctgcacac agctctcctc cctgacacct gagagggagg cgcgcccagc 138120
ctggggtggg gatgcactac acgatgccca gaccaaggca gttattctcc aagccattca 138180
ggagcctccc tgtaccactg agtactctta agaaccccca agaggcagtc ccgtgttgtg 138240
ggggacataa ggccccaatg tccaggacac tcctcaggtt ttctctttcc cctctcactg 138300
tcctgtacgt tttttggttt ttggcttctt gttgttggtt tttttctttt tgttttgttt 138360
ttgcttttga gatggagtct cactctgtcg tccaggctgg agtgcggtgg cacaatctca 138420
gctcacggca acctccacct cccgagttca agtgatcatc ttgcctcagc ctctcgagta 138480
gctgggatta caggcatgca ccaccacatc cggctaattt ttgtattttt ggtagagacg 138540
gggtttcacc atgttgtcca ggttggtctt gaactcctga ccccaagtaa tctgcctgcc 138600
tcggcctccc aaagttctgg gattacagag gtgagccgct gcacccggcc actatcctat 138660
accttcaccc ccaccttggg acaggaaagg aaagccccca ccacagctag ttactgttac 138720
attactgcag cccatcttat tgagggccta gtttgtgcag gcacttgaca tgtgaagcag 138780
atgttaattg ctccaagcaa tcccagatac aagcaacaag actttttttg gtttttgttt 138840
gtttgtttgt ttttgttttt tgagacagtg tcttgctctg tcgcccaggc tggggtgtcc 138900
tggtgcaatc ttggctcact ttggctcact gcagcttcga aattctaggc ttaagcaatc 138960
ctcctgcttc agcctcctaa gaagccggga ttacaggcgc ttgccactat gcacggctaa 139020
ttttttaagt tattttgtag agacggagtc tccctatgtt cccaggctgg tctcaaacac 139080
ctgggctcaa gtgactctcc cacctcgacc tcccaaagtg ctggaactac aggcgtaagc 139140
caccactcct ggccattttt tttttaatt tcacaactca aacttaattc aactcagtcc 139200
ctgcctacct gtactggtgg ggagctggcc acagcaaatt aggcccctgt accctgaggg 139260
caaggccacg tgtgcaggtg taaaaggatg tgaaacccta aatcagggtg gatccagaat 139320
cgcaggccat ggtgccccaa agcagatgtc tggtgacatt ccaccctgaa atgctcaggc 139380
tacagagata ttaggtctct atcactctgt tcctctttat agctcctgtg tccactccta 139440
tgcttgggcc atttcctctt tcggccaaaa cacaaagggt tcatcccatt acttcctccc 139500
tcaacagctg gtccggagac acccagctct aggcctgtgg ggttgtgaca catgggtacc 139560

```
aatccttcag tccactggga ctctatacat ccacccctg gcttcatggt gggaaagcat  139620
cccttgactt tgaccttagt catatgactt gctctggcca atggatgtgc acggacatga  139680
cacaaactaa gtcttgaaac gtacttaagc agtttgcctt tccccctgaa tttctgtcat  139740
tgccatgcaa ggggcaggct ccaactaacc tgctggtcca aagaggatga cgaacacatg  139800
cagatgacct gaatcagacc catggattga aacaaaactc agctgagccc agcctacgtc  139860
caccagacca gtcaacctgt ggatgcgtga atttattgct ggatgctgct gagaattttg  139920
tggctacatt agcaagatga tacaaggcct aagtcccaga acaacacacc cagaacttgc  139980
ttacctttcc ttagcatgag gagagcaaag acttgtctac cttgattagt cagggagcac  140040
tgcttcctgt catttccttg agtatacagc aaactaggta aataaataaa aataactagg  140100
taggctgggc acggtggctc acgcctgtaa tctcagcact ttaggaggcc gaggtgggca  140160
gatcgcttga ggccaggagt tcaagaccag cctggtcaac gtggcgaaac cctgtctcta  140220
cgaaaaatac aaaaattagc tgggcctggt ggcaggcgcc tgtagtctca gctactcagg  140280
aggctgaggc acgagaatcg attgaacccg ggaggtggag attgcagtga gccgagatca  140340
cactactgca ctccagcctg gatgacagag cgagactctg cctcaaaata ttttaaaaaa  140400
tgtaatttct cagtaggtca cactgttaca cattcatcta ataacaatta ttctttttct  140460
ttttttttt ttttttttgg agatagggtc tcactgtcac ccaggctgga caggctggag  140520
tgcaatggca caatctcggc tcactgcaac tttgacctcc taggctcaag tgatcctcct  140580
gcctcagcct cccaagttgc tgggactaca ggtgagtacc accagacgca gccaattttt  140640
gtatttttt gtagagatgg ggcttcacca tgttgcccag gctggtctca cactcctgag  140700
agttcccagt caagtgatcc acccaccttg gcctcccaaa gtgctgggat tacaggtatg  140760
agccaccata cccagtgaat tattctcgtt ccagatagga aaaccaagtc atagggaggt  140820
tagagaattt gccaaagaca aaacttttg gttgaaaaaa aataagtttt gctacaagta  140880
tagaaaacac caaataacgg tgttttaaat aaaatagaag tgtttcaccc tctccctcaa  140940
gtaagtgttg gcatccaaga tgatatgaca actccacaat catgaaacta gatccctttt  141000
tatttttgg ctcagtcatt gtcaatgggc tgcttccagt cattgtccaa agtggctgct  141060
tgcgctccag ccactgtatc tgcattcggg aaagcaggat ggaggaaagg acaaagtagg  141120
ccatgccctc tactttaaga taactcctta aattgctgat gtggtgggtc actcctgcaa  141180
taccagccac tcaggaggct gaagcaggag gttcacttga acccaggagc ttgaggctgc  141240
agtgaactat aattgtgtca ctgcattcca gcctgagtga cagagtgaga tcttgtctct  141300
taacaacaac aaaaaaggta attctttaaa ttgtacactt tattgctgct tatattccac  141360
tagaagctag aagttagtca catggtctta agtctttatt ctaacaggtg atgtgcccga  141420
gtgaatcctg ggggcccagt gctaagaagt agagggagat gaagccctgc cctcctgtgg  141480
agcaaccagg accttaattc agtcattcat tccttggacc taccagatt ccagcctcag  141540
gcccctgccc acctccttgc cagtatctct gcagagcctc ctgcctcccc cagagggtgc  141600
cagagccctc tgcttcctca gccttcagac ccacttgctg tgtctcaggt ggggacaact  141660
cagtctatag aggcccaagg gagatctttg agacccatac tgtagtcagc ttggggcaga  141720
tgggagtcat gtagctcact ggctaaaagc ctaggtcctg catagagctg ggttcaaatc  141780
caggcatatc catcacctgc tctacgatcc caggagtcac tcaatgactc agaagctaga  141840
gtcctctgga aagcttgtat gaagagttcc cagggcctgg aacatcaaaa gagctctgag  141900
aatgttggct ctgctgttgc ttctcttatt gggtatctga aggccgtact ctcctctctc  141960
ctccacccga ggtgacctct actctcatag cccacccctg gaccctcact cattcagtca  142020
cctcacccag tctgtcatct gtccctctgg ctctcctctc ctgttcatgc atcttgtact  142080
cacccacttc tgtccctgag tgtttcaagg ctctgggggtt ttcagagaca ctgaagggac  142140
ctccctcctc aacacaacca caaggtctag gtggaatgac ccactaaggg accggctctg  142200
aagccagaga cttccaggga aagtcaacaa gcccaaggat gcccgttaca agaaagttaa  142260
aagacccatg tacatgtcct cccgttttat tccctgctca gggtctgggc atacagtgga  142320
acacatgcag tccccaaagg acaccgtctg tacagagtca gatggagtta agaacattta  142380
gccggctggg cgcggtggct cacgcctgta gtcccagcta ctcgggaggc tgaggcagga  142440
gaatggcgtg aacccgggag gcggagcttg cagtgagccg agatcgcgcc gctgcactcc  142500
agcctgggcc acagagacag actctgtctc aaaaaaaaaa aaaaagaata tttagtctgg  142560
gcacggaagc ttatgcctgt aatcccagca ctttgggagg ctgaggtggg cggataacct  142620
gaggtcagaa gtttgagacc agcctggcca acatggtgaa accccatctc tactaaaaat  142680
acaaaaatta gccaggcatc tgtaatccca gctactcagg aggctgaggc aggaaaatca  142740
cttgaaccca ggaggtggcg gtcacagtga gccaagattg tgccagtgca ctccagcctg  142800
ggtgacagag caagactcca tctaaacaca cacacgcaca cgcacacata tttaaaccac  142860
cacaccaaca tctagttcaa gatggtggac tgagaacttg tctctgccat tcctggccca  142920
tccaatacca ctgagagcac agtaagcaaa gggaaaagga gacagaaggg ctgggaacag  142980
gatggctggg ggatgggaag tatccactgc acaggatttt gatttaattc tagaagatag  143040
```

```
aaagagggag gatcacgttc aggaacagat gcgggtaaag gaaaccagag ccaaagcacg  143100
ctgagagaaa gctgccccag aggccggagc agaagtggac tctctacagg gactcaatac  143160
accccaaagg gttggtagct ggcacacgta cctctccacc cccacatgta acactgcagg  143220
gcagaggaaa taccctaggt gagttccagt atcaatcaac ctgccctttg ttcataaaga  143280
tgaattggtt accaggtatt accagacagg tgaggaagac caacacaaag agaaagatcc  143340
agaaacaaac aggccaggcg cattggctca cgcctgtaat cccagcactc tgggaggcca  143400
agatgggtgg atcacctgag gtcaggagtt caagaccagc cttgccaaca tggtgaaacc  143460
ctgtctctac taaaaataca aaaattagct gggtgtggtg gggttctcct gcctcagcct  143520
cccgagtagc tgggaggctg aagtaggagg ttcacttgaa cccaggagct cgaggctgca  143580
ttgaactatg attatgtcac tacattccag cctgagtgac agagtgagat cttgtctctt  143640
aacaacaaca aaaaaggtaa ttctttaaat tgcacactac attgctgctt atattccact  143700
ggctagaggt tagtcacatg gtctcatgtc tttattctaa caggtgatgt gcccgagtaa  143760
atcctggggc cccagtgcta agaagtaggg ggagatgaag ccctgccctc ctgcttgaac  143820
cctagaggta gaggttgcag agagcggaga tcatgccact gcactccagc ctgggtgaca  143880
gagtgagact ccatctcaaa aaataaaaaa taaataaata aataaataaa taaataaata  143940
aataaaaacc tacagcaaag aacaaagagc tattgcaccg ttactgtggg cctggcagta  144000
ttatgacaac ttttttttgt ttttttttgt ttggagatgg agtatttttc tgtcacccag  144060
gctggagtgc agtggctcaa tctcagctca ctgcaacctc tgcctcctgg gttcaagcga  144120
ttctcctgct tcagactccc gagtacctgg tattataggc acatcccacc acaccggct   144180
aatttttgta tttttagtag agaccgggtt acaacatggt ttcaccatgt tggccagtct  144240
agtatcaaac tcctgacctc aggtgatcca cccgcctcag cctcccaaag tgccaggatt  144300
acaggcatga gccaccacac ccatccagtg ttctgacaat tttatactta ttaactcatt  144360
tagcaaccct ctgagctaga tgctattgtt atctccactt acaggaaact gagtcacaga  144420
atggtacagt aaaatаacct tgaccgaggt ttacatggct ggtaagtggc agagaaatga  144480
aacttgaacc caggcaacct gtttcctgag ttggactctg aactactcag ccatactgcc  144540
tatttattta tttatttatt tacttactta cttatttatt gagatggggt cagccgggca  144600
tggtggctta cgcctgtaat cccaccactt tgggaggctg aggggaacag atcacttgag  144660
gccagcagtt cgagaccagc ctggacaaca aggagacagg gtcttgctct gtcacccagg  144720
ctggagtgca atggtgcaat catggttcac tgcagcttcg acctcccagg ctcaagcgat  144780
cctcccacct cagcctccca agtagctggg accatаggca cccactatca tgtccagcta  144840
atcgaaaaaa aaaaattata tagagatggg ggtctcacta tattgcctag actggtctct  144900
aactcctggg cttaagcaat ccacccacct tgccctccca aagtactaga attacaggtg  144960
tgagccaccg tgcctgacca atacttcctc tttaataaac taaacaaaaa gtgaacaaac  145020
caatcccgga gggaacagat aattcaagga atacaagaaa acttatgaaa agaaagattc  145080
tagtgccaat atgttcataa aacaaaaaaa agcagctatg aaaagaaagc aaaaaataat  145140
tcttggaaat ttaaaataga attgctgaaa taaaaagaaa ttcaatagaa aagggtgtga  145200
acatctgtgg ttttggtttc caaaattagt tcactcttct ttgggtaaaa ataccctgat  145260
tttcctgctg tattctcaag ccctgtgggt tggtggaatt gacacctctt ccatttactg  145320
cacgagagaa gcatgttgct gctcacagtt cattatgagg agccagcagg taaagacaac  145380
actgagggca gatgaaagat atatactgac cctgggtcct tgtggacatc attgagtccc  145440
tggatcaagc cttacctgaa gctaaaggga tgagtgcttc tcatgttaa tagccactga  145500
tcaaattcca tagaaggact ccaattatcc ttgcctcagt tgtgtgtcca gccctcggat  145560
gagctaccat caagggaaac tgccagacct tggtgacaag cccacccact gaaaatgggg  145620
aaaaaaccca agtcacatca ttgaactgaa agagctgcag ttccccgaaa gacaggagag  145680
aaggaatgct ggataaacac aacaactact tcatctcact gcacctgcaa agaatccagg  145740
cacaggaagg tgggcacagc aagtagtctt tctggttgac atаacaaaga caacatctgt  145800
ttcttctctc agaaagaagt aagaaaggca attggagaac cagaaacgac aaaatctatt  145860
ccaggaccaa atagaaagaa aacacatctg aagcatgatt ttgaacaatt agtggggtgt  145920
aagaaaagag aatccatttg accttgacat ctgaaacagc aaatattctc catcaaggca  145980
ctttagggta gaggaaatga tactatgttt ccttctcaaa ggagctatct ggttacgtgg  146040
ttctgcagta aatgacgttt atacaatcat aacatccgtt ggttttcaat tttcagaatc  146100
aacctgaaga taaagcatgg aagatttcat tataattacc gaacagcatg caaatgttac  146160
aaactttgac catgaaaatg taaaaaagag cccaggcgca gtggctcacg cctgtaatcc  146220
tagcactttc ggaggccgag gcgggtggat cacaaggtca ggagtttgag accagcttgg  146280
ccaacatagt gaaaccccat ctctactaaa aatacaaaca ttagctaggc atggtggcac  146340
gcacctgtag tcccagctac atgggaggct gaggcaggag aatcacttga acccaggagg  146400
cggagtttgt ggtgagccaa gatcacgccg cggcactaca gcctggtcaa cagagcaaga  146460
ctccatctca aaaaaaagaa aagaaaagaa aagaaaagta gacagcagaa attagaggga  146520
```

gatggcaggt gacctggggc tgggggaggc acaatttttc ttacatagtg atagggctca 146580
agaaattctt tctaaaattg atgtatgagg aacgaaattt taaatataga ttgtttagaa 146640
ctataagtag caccaacaca ggactccagt aatcacacag caaacaaaac tgagaaaaca 146700
gacatgggcg gggagatggg aatgggtgat ttccattccc tgctttaatg atgaggtgtc 146760
agtagatgct ctcttgagtt actaaattga gaaacaaaga taaagtatat tgtttagagg 146820
agtgatgttc aaactccaga aaaggctggg cgcggtggct catacctgta atcctggcac 146880
tttggagggc cgaggtgggc agatcactta agcccaggag tttgagacca gcctaggcaa 146940
catgatgaag ccctatctct actaaaaaaa aaaaaaatac aaaaaattag caaagcatgg 147000
tggtgcacac ctgtagtccc agttattcag gatctcacta ctgtactcca gcctgggtaa 147060
tgagagtgag accctctctc aaaaaaaaaa aaaaaaaaaa aaaagaagaa gaagaagaaa 147120
actccagaat atataaaaat gaaaagaggg cggaagagtg gaactgcggg gtagaaaatt 147180
ttgcattttg tttcatctct ctgtatatgt tgaacttttt ttttaaccta catgtactac 147240
gtcatatcca cagcccccaa ccatccacca ggcatcaact gctgtgttta tatggagggt 147300
tgagcaatca ttcctgcctc cttccagttc gtctttcctgt actgcagagg ctagaaaact 147360
aaatttatat cacccagatt cccttccagc taccttaatg ctaccacctc attcagccat 147420
cattgattct ccacttcacc aaactggtca ataattgtct cttctaaaaa tattagaatt 147480
gggactaaga gacactacag ctgacccctta aacaacatgg gtttgaactg tgctagtctg 147540
cttatacaca gatttttaaa aaaataaaca tattgaaaaa aattttggag agatgtgaca 147600
atttgaaaaa actcacaaac cacatagcta gaaatatcaa aaaaaaaaaa actgaaacag 147660
agttaggtag gtcaggaatg cataaatata tatgttaatt ggctgtttat attattagta 147720
gggcttccag tcaacagaag gctattagta attaagtatt tgagtcaaaa gttatacaca 147780
gatttttgat gatgaggagg attagtgccc ccaaccccca tgttgttcaa gggttagcta 147840
tatttgaaat ctgctggtag ctggaattgg gcaactaaat tcacgagatg tggaacggtc 147900
gtatacatgg agaataaata aataaataaa taaataaata agtatttgtt ggcctggtgc 147960
agtggctcat acctgtaatc ccaacacttt gggaggccaa ggcaggcaga tgacttgagg 148020
tcaggagttc gagaccagcc tggccaacat ggtgaaatac cgtctctact aaaaatacaa 148080
aaatcagctg ggcgtggtgg tgtgcacctg taatccccagc tgcttgggag gctgagggat 148140
gagaattgct tgaacctggg agtcagaggt tgcagtgagc cgagattgca ccactgcact 148200
ccagcctggg cgaaagagtg ggactctgtc tcaacaacaa caacaaaaaa gcaattgtta 148260
aaagaataag aaaacaagcc acagattggg agaatatatt tgcaaaacaa atatctgatg 148320
acccaaaata cacaaagaac tcttaaaacc caacactaag aaatcaaaca accccattaa 148380
aaaatggaca aacgggccag gcatggtggc ggtggctcac atctgtaatg ccagcacttt 148440
gggaggccga gcagggcaga tcacctagg tcaggagttc tcaactagcc tggccaacat 148500
agtgaaaccg tctctactga aaatacaaaa attagccgac cgtggtgacg tgcatctgtg 148560
gtcccagcta cttgggtgtc tgcggcagga aaatagcttg aaccagggag gttgcaatga 148620
gctaagatcg cgccactgca ctccagcctg ggcaacacag tgagactccg tctcaaaaaa 148680
aaaaaatggg caaaagatgt gaacagacac ctcatcaaag aagatataca gatggaagat 148740
aagcatatga aaatatgctt aacctgatgt cattaaggaa ttacaaattg aagcaacaag 148800
gtaccactaa acccctatta aaatggtcaa aatccagaat gctaaaaaca ccaaatgctg 148860
gtgaggatgt ggagtgacag gactctcatt cgttgctggt ggaaatgtaa aatggtatgg 148920
ccatttttaa gacagtttgg cagtttctta caaaactaaa catagtctta ccatacaatc 148980
taacaattac actcctagat agttacccaa ttgaggtgaa aacttatatc cagggccgag 149040
cacagtggct cacacctgta atcccatcac tttgggaggc caaagaggaa ggattgcttg 149100
aggccaggag ttctttcttt ttatttattt atttatttat tttctttttga gacagagttt 149160
cgctctgtca cccaggctgg agtgcagtgg agtgatctca tctcactgca atctctgcct 149220
cccggcttca agcgattctc ctgtctcggc ctctgagtag ctgctgggat tacaggtgca 149280
cgccaccatg cccagctaat ttttatattt ttagtagaga cagggtttca ccatgtcagc 149340
tagactggtc ttgaactcct gacctcaagt gacctgcctg cctcggtctc ccaaagtgct 149400
gggattacag gtgtgagcta ctgtgctcag ccaaggccag gagttccaga ccagtcctgg 149460
caacacagtg atactctgtc tctacaaaaa aaaatttttt taattagtca catgtggtgg 149520
cacacacttg tagtgtcagc tactggggag gctgaggctg aggatcactt gagccccagg 149580
agtttgaggt tgcagtgagc cacgattatg cctctgcact ccagcgtggg caacagagta 149640
agagaaagaa agagagagag agagagagag agaggaagga aggaaggaag gagaaaagaa 149700
acgaaaagaa aagaaggaag gaagggaagg aagggaggga aggaaggggag gaaggaagga 149760
agaaagaaag aaaggaaaga aataaaaaag gaaaagaaaa gagagagaga aaccttatat 149820
ccatacaaaa ccctgcgcaa gaatgtttat agctgcttta ttcataattg ccaaaaactg 149880
gaagcaacta agaagctctc caatgggtga aaggataaac aaactgtggt atatctgtgc 149940
aatggagtat cattaagtaa taaaaagaag acttagcaaa ccacaaaaag taatatgcat 150000

```
actaaatatg catttagtaa tattaatatg cattaagcaa taaaaaaaga cgtgtcaagc  150060
cacaaaaagt aatatccata ttactaaatg aaagaagcca gtctgaaaag gctacgtgct  150120
gtgtgatttc aactatttga ctttctggaa aaggcaaaac tacagacagt aaaaagatca  150180
agggttgccg ggggttctgg ggacaggaaa ggatgaatag gtggagcacg ggaatttttag 150240
gtcagtgata ttattctata tgatactata atggtggatc catgatatgc ttttgtcaaa  150300
acccatagaa agtacaacac aaagagtgat tcttaatgta aactatgtgc tttagtcaac  150360
aatgtattga tattagttca ttaattttaa caatgtacca cactaatcca agatgttaat  150420
aatggggaaa ctgcgtgtga gggaggggat acatgggaac tctgtactac agctcaataa  150480
ttttataaat ctaaaacttt ttttttaaat aaagtctctt agaaaacaat aaaaataaaa  150540
taaaaagtca attttttttt ttttttttga gagggaatct tgctctgtca cccaggctgg  150600
agtgcagtgg cacaatctct gctcactgca acctctgcct ccttagttca agcgattctc  150660
ctgcctctac ctcccaggtt caatcaattc tcccacctca gcctcccaag tagctgggac  150720
tacaggcatg cgccaccacg cctggctaat gtttgtattt ttagtagaga tggggtttcg  150780
ccatgttggc caggctggtc aagaactcct gacctcaggt gatccgcccg cctcagcctt  150840
tcaaagtgct gggattacag ggttgaacca catgcctggt ctaaaatgtc catttttaaa  150900
aggcagtctg gctggggcag tggctcacgc ctgtaatccc agcaccatgg gagaaggctg  150960
agcagggtgt atctcttgag cccaggagtt cgaggctgta gtgtgctatg atggtgccac  151020
tgcactccag cctgggtgac agagtgagac tctgtctcta aaataaataa ataaaaatac  151080
aataaaattt taaaaggcaa tctgcagcaa gagaagatga agttagcagg agagcaggac  151140
agaggagagt ccatgaacaa cagggagagg aaagtggtca tggtggcagc tcccaggctc  151200
ctggcatatg ttcaattccc tgttcccagc cctcaggaag cccagatgtc cccacctgcc  151260
cctacataca aaccctggat ccttgacatc aacttctcct ttccttcatg tgctctaatg  151320
agtttttgtt acttgtggaa catttaacta acatcattaa ccaagtggac ctgtctcaga  151380
gtggtgttat gagaagacag cagccaaaag acagctgcag ccaagcacag tggctcatgc  151440
ctgtaatcct agcattttgg gaggccgagg tgggtggatc acctgaggtc aggagttcga  151500
gaccagcatg gccaacatgg cgaaaccccc tctccactaa aaatataaaa attatccggg  151560
tgtggtggcg agcgcctata atcccagcta cttgggaggt tgaggcagga gaattgcctg  151620
agcccagggg gcagaggcgg cagtgagccg ggatcgtgcc acttcactcc agcctgggtg  151680
aaagagcaaa actctgtctc aaaaaaaaaa aaaaaaaaga cagctgcaac aaatgtcaag  151740
ttctgtgtgt tttcttttct tttcttttct ttctatttaa ttaatttatt ttagagtcag  151800
agcctcccta tgtcacccag gctggagtgc agtggcacag tcacagctca ctgtagcctc  151860
aacctcctgg gctcaggcga tccttccacc tcagcctcct tcctagctgg gactacaggt  151920
gtgtgccacg acatctggct tgtgtgtttt cttttctttt tttttgagac ggagtcttgc  151980
tctgccaccc aggctggagt gcagtggcgc gatcttggct cactgcaacc tctgcctcct  152040
gggctcaagc aattctcctg cctccgcctc ctgagtagct gggaatacag gcgcacacca  152100
ccatgcccag ctaatttttg tatttttagt agagacgggg tttcaccatg ttggccagga  152160
tggtctcgat ctcctgacct tgtgatccac ctgactcggc atcccaaagt gctgggatta  152220
caggcgtgag ccactgcacc ctgcctggct tgcatgtttt ctgacatact gtcaaaagga  152280
tactcatact aaatggcaac acattctcaa gccccttcct tttcttctcc tatctgcttt  152340
accacacacc atagctgctt ttaccgtttt ctccttaaaa actcaaaaaa accttccccc  152400
aacctatcta tccacttctt gtcctcccct caaacccact ccattttgat tctgcatcat  152460
aaaaaccaag cagagttctg gggaggcaga agcctcctct tatgatattg gaaggggtg   152520
gatgaaattg agcacacaaa gccagaatcc tcttttgtgg aaagatgggg gcagtggcca  152580
gagggaagca ggctcatctc tttccctctc ttcccttccc ttctctttca caccacacgc  152640
tccgcctggg tgagctcatc gtcctcgtgt cttcaatttc cacctccagg agatcgactg  152700
ccaaatttct acccgcaatc ccaaactcca ctctgagctc cagacccatc tactaattgc  152760
ctagtcaaca ttttctctgt gggatcgaat cagatagggt tatattctgc tgtgactaac  152820
agagactgaa aattcagagt cctaaacaaa agactttctt tttcttgtgc tgaaaagtct  152880
ggaagtacac agccctaggc tggaataggg atactgctgg ggggctccgc ctccttgcag  152940
gctgcccctc tgctatctcc agggtgtgtc cctcaaccac actgtccaaa gtggtgactg  153000
aaggaccagt cctcccactg acattccagg caacagaatg gagaagaaca ggctgaggaa  153060
ggaggaacca caggcgccct ccagctgttt caaggaaggt tcctggaaga tgctaaataa  153120
caattccgtt tatatctcat tagccaggct tagtcacgtg gcaacaccta gaagcaagaa  153180
aggctgggaa atatactgtt tctgctgggt taccgtatgc atgactaaaa agagagcgct  153240
ctgttcttag gaaaatgaga atagactggg ttgggggagg ataaccagca ttggctacac  153300
tgcagcccca caacctcctc atgcttgatg tggctgaaat aaaaagagca tctcccccta  153360
acatttcctt tcccttagtc ttgttccttt tctgtacccc atacctagc agaggggcaa  153420
ttctgtgggg tgggctcact ggcaagggga ggtctcaccc aagctcagtc aagggtgagc  153480
```

agagagaatt gtacaaggaa gctgaatttc cagctggtct ggaggaaaca ctgaaaaccc 153540
caaacagaag atgtccaggt ggagcaaatg cagctgagag ttcttgtcca aggggacaga 153600
atgtcagcag agtaggacac aagggcaggt ctctactgaa agcaccaggg gcaaagtcac 153660
ccagcccttc aaccggctgg ccaccaagca catcggctcc actctgcctc ctgcccgtgc 153720
caccctttgc acttttgtct gtaccatctc ctccaccagg agtgccttcc ccgctcctcc 153780
atgtggtata ctctcagcca cccctcaggc tcagatccag agccacctcc tccaagaagt 153840
ctccacctgt ctgctgggaa ccctcacatc acactgggag acgaagccaa aagtgggggg 153900
gtcagtacag aggtgtggga ggtaggtcca atcctggctg gacctggctt tgggtgccat 153960
ttgggacagg gtattgggga ggttcagcag gaaggtggga cctcaaggct ttcttttttat 154020
gaaggaggag gaaccagctg ttgacagagc agcaacagca gggagccacc aaggctgagc 154080
cttgaaccct gggccaccag gctcctgcag gcaactggga gcagctcagc ctctcacagt 154140
cccatttcca gggaggaaga tgatgcagcc tgaggcaatt ggccacctgg aggaagttca 154200
gctgggtggg gcaggcagag gaattcctgg aaggaagctc acccctcagc actgggggtag 154260
agggacacta gagacagggg tggcccagga gctgcccacc tcctatcccc atgaataagc 154320
aggtgggccc gggtgaccag ctgggagcca cccctgggtg ctcaggtacc atgcttctgg 154380
cccagcctcc tgagctgtgg cacaggcaag agcaccggcc cacgggggtct gcatggggca 154440
gtgacctgtt ctctctaagc ttcagctttc tcatctgtag aaagagggtg aagagtcctt 154500
ccccaccatg gttgtggtga gggtaactga agtgtcaggg taggggaccc agtggggcac 154560
cagcacacct gaggttcagt caacaaggcc cactggtgaa gaaaacctcg cccacctcc 154620
cgtccctcct gaggcaggtg gtggaggcac atgccctctc cattgtgtgt gcatgagtgt 154680
gtgggtgcat gcatgtgtgt gcatgcatgt gtgtgtgcat gtgtgtgcat gcatgtgtgt 154740
gcgaatgtgt gtgtgtgcgc acatgcatgt gtgctaagct ctggagaaca agcagccagg 154800
cttgggcagg agtccggggg caaggggggg acatgcaaag ttctctccac agcccctcag 154860
tgctaacagg ctgaggtggg ggatgacatg tcttagaaac aaacttcacc ctctgcccta 154920
aaactgcctg ctggtctgcc acatcgggcc aagctgtggg tacttggaaa gagggccctg 154980
ctcctgcctt ccaaacccag gaagtcttga aatccccatg gaggggacct ggggccaggg 155040
gactccccaa gcagacacag cacccacaca agggtctaag ggaccccttt ctccccaacc 155100
gcctgaggta gggatggatg tggacaagca gctcagggct ggggctggcc taggtggaag 155160
gttcagaagc acagaaggca ggacgtgccc aaggggccgg acatgggggt ggaggctagg 155220
ggctggaaaa agagtttggg aggtcagcca agggcagtcc acgccttggc tcttctctgg 155280
gtcatgggga gccacggaga gtataggagt ggtgatggga tggccccaga gttgtgcctt 155340
tgaaagtcac ctctggttgc agatagagat ggactggggg cagggctgag aggaagggca 155400
tctcatgaga ggggaaatcc ctgaccacag tccagaggaa aacagcgggc ctggggagag 155460
gctgctcctg gggaggacct actcagaggc tgattcttcc tcgtgctacc ccacccagag 155520
agatgcagga agctggtgag gtcagtgggt gggcccacaa ccatgctgga gaggagcagg 155580
agggagacgg gagggcacag agaggtagag ggcagggact ctgaggaccc tcatccatgc 155640
ccacctggac aattgaatcg agcttcctct agtgtggaat gtggctcac tggggctatt 155700
tgctatcctt ctctcatgtc agactggatg cggccaagg gtggggtctg tgactccctc 155760
atcagactga gggggccga aatgtggggg tgggggaagg agggagcttc caaacaggaa 155820
ggtttggagg gcgctggcac tgaggacagg ggatacgccc cccatgagtc ttcacccctg 155880
ctcagagcct gctgccgtgg ccctcagaga cgagcccatc tttggagctg gagttgggga 155940
cagggaaacc aggtggaagg gaaaaagaaa aaaggggcag gcatgagtgt gaggggccag 156000
accctgcaga ccccaggaca tgcacagcag acacacactc caatcctcc tggctctgct 156060
cagcctcaaa cgaggtgcag gcctgcaggc cccaaccaag gacccctgtt acacacagac 156120
acaaagacac aagatgcagc aacacacaca cgtaatacag aaacacagtc acacactagc 156180
gcacacacag acacagtcag acaatccaag aaacacactc acacatgaac agacatataa 156240
gcaaagtctt acacatacaa agacacactt aagcacagac acaaacacac caacagatgc 156300
acagacggac acacatagac gcacactggg aggcggcctg tggagactgc tgattggata 156360
ccatgttggc ttggtatcca gaattgttgg tgcagcgcac tccccatgcc tgacctcatt 156420
aaggaggccc tctggggcag tggctctgag aagaaaggca gcaagcctag ggaggtgaca 156480
ctgtagctgg ggagcatttt ggctgggcag agaggaggaa ggagagcatt tcagggaggg 156540
aaaatagccc ttgcaaaggt ttggagtgga agagcaaaag ggatgtccca agaactgtgc 156600
ctcatttgat ggggctgtgg ggcccttctc tgacgggcag ccttcccagg cacaaaggga 156660
ggtggactga gaagcatctg gaacttctgt gggggcacat ggggcagagg ggaaggggaa 156720
caggcagaac gagtcagctg cctttgaaag ctccacgagg gacctagcag aaattcattc 156780
attcatccgt tcattcattt atttatgaca ggttctctct ctgtcaccca agctggagtg 156840
cggtggtgtg atcacactta ctgcagcctt aaactcctgg gctcaagcaa tcctccaccc 156900
cagcctcctg agtacctagg actacagacg tgagctacta cacctggcta atttttaaaa 156960

```
cttttagag acagggtctc cctttgttgc ccaggctggt ctttgttgcc cagccagctt  157020
caagccatcc tcccacctca gactcccaaa gcgctggatt acaggcatga gccacgggtt  157080
cccagcccag aaagagacct tcacccccaca aacccccgt ctggaggcca agtcccagca  157140
tccccagaag ggccccggtt aggacaagaa aaaggctgtg tgcctcggag gagaggctgg  157200
gtgcccctg gtgcggagtg gtccccttgc cgggcatggg gcctcagtct gtgagactcc  157260
gcgcctccgt cgtctgaact tgagcaaaga cagagctagg cctagcctgg ggacccgagg  157320
gcctgccctc atccgcaatt ctgcctcttt tctggccact gaggaccggg ctaggtaagc  157380
tgtaggggca gtaggggtgg gaggagagag ggttccgggt caagggactg gaggggtctg  157440
gggcagggaa gtggaggggt ctagggcggg cccttccccc tccgctgttg ggccctcgct  157500
gaaggggccg aggctgagcc ccaaggtggg cctgtggggg cggggcgggg gagcccctca  157560
gcagctggac cgcaggaggc cgaccagggt ctggaactcc tcttcccctc cctccgccgc  157620
cccctctccc ttctcccacc ccctgggctg ctaggggagc gggggaggcg caggaggggc  157680
tcagggaggg gccctggacg cgggaccagg ctgggcccct cggcggaggc ccgcgcaggc  157740
aggccctgcc gctggcctcg cacatctggg ccgggagcgc gggccgaccc ggcggcgcag  157800
gcggcgcggc catccggcct gggggaggggg gcggcggccg gggtgggccg gccccaagaa  157860
ggcggaaggc ctcagggccg ggcgcacgtt gagggctgcg accgccgcag cgggcacggc  157920
ccaccgagct gggggcccgg gatcgcggcg gctggacggg gctggagctg tcgggagggc  157980
ggaggtgagt tctgggggcgg gggctgccgg gcgccccgag tggagaaagg cgaggaggtt  158040
tgccgtcccg ggctgtcggc tgagacccca ccaaaaacct ccagactttg tctggtgggg  158100
acagatctgc aagcccctct ctgcagcgtg gctgcgggct cgggaaggca cttggggcag  158160
cgaccttggt ctcccacctg ggcttcgggg gaccacctcc cctgtccctc gcacagctgc  158220
tcagaggctt aggctggaga aactcctgtg tcttaggggc tggcaggact ggtgtgggct  158280
ggggcctgct ccagggagcc aaactgaggg acccggtgcc taggtctgag gtggaaacct  158340
gggagttgag tgtatgtgtg tgtgttgggg ggtgcctcag gggtcccagg ccctgtggtc  158400
ccgaagcgca acagagtact gagtggccca ggtgccaggg tctgaggctg ggacctggtc  158460
ttccgggcca gcttgaggtc caggtggggt ggggtccagg ttcccgctag ggcagtggag  158520
cctatctgtg aggttagcgt gtgttgatga gagagactgg aagggagtga tcacgaaact  158580
agggaccctc cggagagcag acgcagcgca ggaatcccag gccagagggg taatgggggg  158640
ctgtgggcag agcatgggag gggctctgtt gtttgtgaac tggctgctcc catgatgagg  158700
acccaagggg gtgcggcagg atgtatggaa agcaaagatg aggacaggga ggggccatgg  158760
gaggccattt ctgtcactcc ctgccccagc gcaggatggg gcagccacct cactcagcca  158820
cacatggtcc catcttctta agggctcctc tccagaacag agtggggcag ccctttgggt  158880
gccgttttctg atctgtgctt tgggccctgg ttggcccagt ctgtggcttg gaagaaacgc  158940
ctgtggcctc acttagcccg ctgacggagt cctgttccat tacagggctg gctgggtgct  159000
gagcagagag cagcaggcgg aagaggcagg gtcctagtga ggaggggagc tggaatgacc  159060
tgggtggcct ctttgtctac acaggcatcg tgtggagccc tgaaacccag aacactgcat  159120
tcccatagtg ctcctgggga catgagcgcc cagctgaaac accccacaca ggaagagatc  159180
ctccgaggat tctgtcaggc aaagggttgg gcccctgcaa ggtggctcac gcctgtaatc  159240
ccagcacttt gggaggatga agtgggagga tcgcttgagg ccaggtggtc gaggctgcag  159300
tgagccgtga tcgtgccact gcactccagc ctaggcaaca gagcaagacc ctgtctcaaa  159360
aaaaggagcg ggagtggggg cagggttcgt cctaggctat tgtaagacca ggggatactc  159420
tgggatggga gtctctggtt gtgagttcct gctgggccac accctatcct ggtccccagt  159480
gactaatcgg ccctgcctat tgggtagaag tcagggccag gggtcagggt gaagctgatg  159540
actagaggtc aatatgaagc caagagttag gggtcagtcc atgggcaggg ttagggatca  159600
ggctggggcc agagttggc atgtgcttgt agccaggaaa tggagttcct ttctgtgtaa  159660
atcaaactgt cccactcaat tactctcaaa cccataggca ccaccagtct gaaattagta  159720
ggcccctgaa gcgggggctca gcctcccctc attttcagct gtggactctg ccccagacta  159780
gctttcggga gctgggcttg tcccgtgttc tgtggtcagc actctcctta agtgtccctg  159840
ggtgtgtgtg ctcgcttggc agtcagccac ctcttggctt acctccacct ctcgggggaat  159900
ccatgggatc ctccttcttt aacacaattt ttttttttt ttttttgga gacagggtct  159960
cactctgtca cccaggctgg agtgcagtgg tgtgatcatg acttactgca gcctcaacct  160020
tccaggctca agcaattctc ccacctcagc gtccaaagtg gctgggactc taggcatgca  160080
ctaccacgct gggctaatat ttgtattttt cgtagagatg gggttttgct gttgcccagg  160140
ctggtctcga actcctgagc tcaagcaatc cacccacttt gacctcccaa agtgctagaa  160200
ttacaggcat gagccaccac acccagccct taacacaaat tgatttagtt cctacctcct  160260
tccttaaaga actcatgatg actagaatgc gattctcagt aagaccaaaa tatctaacaa  160320
gaaaattcag aatctgcatc atgaagggaa agaacactgc tcaaacctgc ccaactccct  160380
gcttttatca ataccttgca tatctggact tgttaacata agccctctgt gtcacccatt  160440
```

```
ctacaggaaa gggcactgag gcacagagat gtggcatgat gcactcacgc taggtgccat  160500
aataggctct tgccatccct gaaaccccag cataggggca ctcagcatat cgcacaatga  160560
gagacggtag ataactggac aagcttccga tagctgggaa gagtataggc ccatggtttg  160620
gatgtggaat ccagtgtaga gcgaggactc agtcttttttt ttttttttcc ttgagatggg  160680
gtctcactct tctcgcccag gctggagtgc aatggcgcga tcttggctca ctgcaacctc  160740
tgcttcccag gttcaaacga ttctcctgcc tcagcctcct gagtagctgg aattacaggc  160800
gtctgccact acgcttggct aatttttgta tttttagtag agacaaggtt tcaccatgtt  160860
ggccaggctg gtctcgaatt cctgacctca ggtgatccac ctgcctcagc ctctgaaagt  160920
gctgggatta caggagtgag ccacggcgcc cggcccagag tctttttttt tctggtggtt  160980
ctaggttgtt tctcctccag gtacaatagc ctcggtccag aaaatccatt cattcattca  161040
acaaagtggt tccccagtgc ttagcacaga gcctggcatg aagaatctcg ataagtgttt  161100
gctgaagaat cagaacaaca tacaaataag gctgccagct cctccctcga gaccttgatc  161160
cagtagtatg ctggttaatg gtttccaatc agctctggaa gaaggataaa atcctgattt  161220
atggtgtttg ccaatttctg tcttgtaaat actcccagcc atgactgatt tgaagctacc  161280
aatgtgatgt cattgaatgc agaattggga agagatagaa agaatcagct cgcatgagct  161340
ggtgggaccc agctcagcat cccactccat catcctgagc tgggctctgg gctcctgccc  161400
ctggctccta agaaccctcc cctccccctc tctgtgcttt ccctttttctc ctcaacagcc  161460
agctgctata tgcatgccca caaccagcac ccatccttct tctgattctg attcctgagc  161520
atccaactcc aatggtacag aggacagcaa gagtgtctgg aaatctccat ggtgctggcc  161580
atgcaggaga atcctggaca tacaagagtg tgtgggagtc caggtgtctg tccacaatgg  161640
ggctggtttg tgtgaactgt gtgagcaagg gtgtgtgcat gtgtctatgg gcatgccaga  161700
gccagctctg tgtctgcctg tgttctatag caaaactttc agattgggcc gctggtgaca  161760
gagaaggaat gcattggccc tgcgtagcct cctcctttgt ttagaggagc agccaggccc  161820
accaatgaga acatagtgtc agtggtctgc agactggctg agagacactg ttgagcaaca  161880
cttctcaaac ttcaatgtgc acctgaatca cctgggaatc ttgttaaaat aggccagacg  161940
cggtggctta cgcctgtaat cccagcactt tgggaggctg agacgggcgg atcacctgag  162000
gccaggagtt cgagaccagc ctggccaata tggtgaaacc ccgactctac taaaaataca  162060
aaaattagcc aggcattttt aggtggcatt ttaggcaaat taggtggcgc atgcctgtgg  162120
ccccagctac ttgggaggct gaggcaggat aatcacttga acccaggaga tggagattgc  162180
agtgagctga gaactgagat cacgccactg cactccagcc tgggggacag agtgagactc  162240
tgcctcaaaa ataaataaat aaataaataa ataaataaat aaataaataa atatgaaata  162300
catgttctga ttcagcaggt ctgggctggg gcctgaggtt ctgcatttct aacaagcttc  162360
caggtgatac caatgctgct gatcctcagc ccacactttg agtaacaaag ctgttgatgg  162420
tttgaaatat cctgcctata gcctggcccc agaacttcat agacaggatc gagccccctc  162480
catcttagaa aataaatatt cttcctcacc tcccttcagc tttagcgccc tccaactact  162540
gccctcacat gtattcctga tttcagccaa gcttttcaga aattctagct caatatgatt  162600
gcgtcactac actccagcct gggcaacaga gtgaaactcc atcttaagaa aagaagttct  162660
agctcatgtc acctcttgct cactcctcac ctaagcttac ctcccttggg ccactaaaac  162720
agtgtttcca gtctcatctg gggacctttt acagggatct agctttaccc atctcttggt  162780
acaatcttca tgagaccatg aggcatctca gtctcctggg ccggtatata ttcctctgtt  162840
cagcctttaa atgtaggttc tcctcgtgac agagtgacac cctatctcaa aacaaacaaa  162900
caacgaaggc caggcacggt ggctcatgcc tgtaatccca gcactttgag aggccgaggt  162960
gggcggatca cctgaggtca ggagttcgag aacagcctgg ccaacatggc gaaaccccgt  163020
ctctactaaa aatacaaaaa ttagctgggc atggaggcac tcacctgtaa tcccagctac  163080
tgaggaggct gaggtaggag aatggcttga acctgggagg cagaggttgc agtgagccaa  163140
gatcgtgcca ctgcattcca gcctgggcaa cagagtgaga ccctgtctca gaaaaaagaa  163200
aagacaaatt ggatcatgcc cccacccccac cctgccacct caaacctttc aagatttgct  163260
gttgcccttc atataaaatc aaatctgaaa tagggtgcac aggccctgcc tgcagggtaa  163320
gcccagccca gccctctgtc cagacttacc atgtcctctt cccaccccgc attatccaac  163380
tttgaccttc ctagcactca gcaacgcttg tcatttcaaa atcacttgcc tgattatctc  163440
ctccatcaga ccgttggttt ctagggcagg gacagtgtct ctctgggtca ctatctccca  163500
gcacctggca cagagcaggc accagaaaac atttagaagg atcctgattc caagaaagta  163560
aagccatttt ttgacacaag ctgggaactg tgggacttta gatgagattt aaggaattac  163620
tgttaatttc attagacatg agaatggtgt tgcgatgaca ttgtttaaaa cgtctttatc  163680
tgttggagag atgtattaaa gagttcacgg gtgaaacaac atgatggctg ggatttgctt  163740
caaaggactc cagccaaaag taaacaaata aaataaataa gcattcagat gagggaacaa  163800
agggacaaat aaatcccact ctgcttgtct gttcctgttg acagctacag ggcctgcaag  163860
gatgttggct gtcccggaga tgggcctgca ggggctgtac atcggtaaga acccccacca  163920
```

```
ttctgccctg acccatcacc cactcacccg agcaggcact gagacccacc tacaggttgt  163980
gcaatgtacc tctccacag agcttcccaa cagctcttct gtgagtgagt gtgtgtgtgt  164040
gtgtgcatgt gtgcagggca ggtctgtgtt tactggaccc ccctgtgtgt gcagaaaggg  164100
tctgtgtgca ccggtctgtg tatgtgagta tgtgtgcaca caggactggt ctattcacag  164160
gaccctcatg tgtatatgag tgtgggctga gtgcgtgtgt ttgtgtgtgc cagaagggtc  164220
tgtgcacaca ggagtgtatg catgtgcgtg tgttttgttc aggctctgtc cacaggaccc  164280
tgtgtgagtg tgtcagtgag tgtgtgtctc tgcgggcagg tctctgtgca cgggatctgt  164340
gtacgggagt atagtctgca ggtgggcatg catacagaga gttctgcgtg tgcatggagg  164400
gtctgtgtgc acaggagtgt ttgaatgtcc atgtgttttg ttcaggccat gtgcacagga  164460
ccccgtgtga gtgcatcagt gagtgtgtgt ctctgcgggc aggtctctgt gcacaggatc  164520
tgtgtacggg agtatagtct gcaggtgggc acgcatgcag agagttctgc gtgtgcatgt  164580
gcgtctggcc atagcctggt ctgggagcag gcttgggttc tccgcagggg tgggaggccg  164640
gaggcaagag ggacactcct caggaagtcc attcacaaag acctggtggg ctgggccctt  164700
ccttcctgcc tcccttccca agctcgagcc acagcaactt ggcctctcgg gctgcagctg  164760
gtggcagggc tggagcctgc cctggctgcc tgaggagagg gagcccttga aatgtggcca  164820
ctttttccct gcccctccag cacctcagac tctggccctg tccaggcgct tcccagagtc  164880
cccctcatgc ctggcccttc gcctgtgttc ccaggttacc cccaaggcca gggagagtgg  164940
agacctgcct ggcagcacgt gacaggactg tggctgaggg agcacagggc ctgcctggct  165000
cagcctaagg cgagccagac ctgcctgatt tgtccatgga gcttcctacc agatctcact  165060
ctccctccct agccagcctc cctggcctgt ccatggatat caaggctgcc ccagtactcc  165120
tcacatgccc cttagcaatg cccagtgtgg tggtggcagc taccagccag gcaggccctc  165180
ctgccccata agccgcctga tcctcggggc gaggcctggg gctgtcctcc agggctactc  165240
tactccctcc caccaaaggt ccagctcagt cccaggcgtg caagagggtc ttgatggggc  165300
gtcctgccct gaaatgctgg ctcagggtgt gtgtatgtgt gtgtgtgggg ggtgggaatc  165360
agacttccta atgttgtgga caccccagt tcaggactgg gctatctcta tgggtgtggg  165420
aggaggtgct ccccctcctc gatcctcctc aagcagccag ctgggcctgt ctgtggccct  165480
tgtgggcatg ggagctgcag agtttcctca agtcctgatt agaaccacgt ggcccaactt  165540
tagggtggag gggagcaacc ccacctccta gccagttagc tctgtagctc caccttttga  165600
aggaggaggg cttctctctc ctctactccc tcccaggagc tcacctgccc tatctcccct  165660
gcccttccat ctctggactg agtctccctg ccacacaatg cttttctgtc tctctcccct  165720
cccacactgt gtgtctgagg ggccctagtg gggagacagt gagctcctgg ggaaagcatg  165780
ggtcatctgc tagggaaacg ttgcctctga cagcagaccc tcagctcctg cccctgcgtc  165840
atgtgtgtct ttcctacacc ccgcagtcct cctccccagc agagagccct ttgccttagc  165900
ccagcaagga ctgatggaga acctttgggt gcctggcttg gggcccgct gccataccta  165960
ccctgcttgt gccaggatga actgccgtct cttctctgca ggctccagcc cggagcggtc  166020
cccagtgcct agcccacccg gctccccgag gacccaggaa agctgcggca ttgccccct  166080
cacaccctcg cagtctccag taagcccaga gcagggacca ggtggtgggt gacctggctg  166140
gtgtggacag ggtcgtgcgt ggcaaagtca tgacagggcc tcagctagga aggaggaggg  166200
gatgggggta gcaccatgcc tcttgtcccc gtacactcca gtcatgtgcc ccccagaagg  166260
attggccttg ggtgaccctg gactataaag ggtaacaatt ctactgagaa ggcgagcccc  166320
atgtaactaa ctcccaaccc ccccacacag gaggcaccca cggccattga agctggcctg  166380
gctgaggcaa gtgttccct gagcatgtgg cttttctagg tccccagagc actgggcctc  166440
ttgtggacca cagcccacct taatccaagt catatctgaa ggagaggaga tgtgttgcca  166500
aaaaaaaaaa aaaatagtct ggaaaccatt agcttgggct gggcatggtg gctcatacct  166560
gtaatcccag cactttggga ggccgaggtg ggcagattgc tttgagctca ggagttcaag  166620
aacagcctga gcaacacagc gaaaccccat ctctacaaaa aatacaacaa ttagctgggc  166680
gtggtggtgc acacctgtaa tcccagctac tcgggaggct gaggggagg aattgcttga  166740
acctgggaag cggaggttgc agttagccaa gatcgcacca ctgcatttca gcctaggtga  166800
cagagtgaga ccctgtctca aataaaaagg aaactactag cttgaagtat ccaggacacc  166860
acctccccac ccccaagctc cctgggtcac cccacctgga tgaccttgcc ctggtgatcc  166920
agcttaggga cccccttatt cttaggggag tccagccctg gcataggaga aggcacacac  166980
ttctctgggg acatgcacgt gccctctcct ctctgccaca gaatcagaca gtctggtttg  167040
tgtcactatg gccacaaaga gcaagaggat aaaatatata cactggtcca tgtgctgtaa  167100
aactgcctgg aggagcaaaa ttgctcccag ctgggcccag actaatggct gcctatgaag  167160
atggtgtgag gtgggggtgg ggctaaggca gtccagaggg agggtgggca gaggctggaa  167220
gcaggaaagc aggagcttga gccaaaccct gcctggggct acctgagaga cacgtccaag  167280
gctcagcctg gagcctggga gggcaaggga gcccgagcag gtgggcaggt ggggtgggcc  167340
aggtccaggg ctggtctgga ccacagtcag tggaggggag tgtcttcccc atgcagagga  167400
```

agcattgggg ctgtggggga tgggggtgtc cctgctggct gcttgctaat tctaagtctt 167460
gcacttgcag aaacccgagg tccgagcccc ccagcaggcc tccttctctg tggtggtggc 167520
cattgacttc ggcaccacgt ctagtggcta tgctttcagc tttgccagtg accctgaggc 167580
catccacatg atgaggtgag gtcggctggg ctgagagagt gaggtgggga gggtggggag 167640
ttcctcatac cttggtccca aaagtactgt caccgagaca tggggtctcc ttgagggccc 167700
tgccaccccc agtctggggc tccccactgg ggtaaaagtt ggaggatggg ccccaggcct 167760
gggtccttgg cctcaactgg agcagctccc aaccctctgt aggaaaagtc agacttttgt 167820
tttaattttg aatttttttg agatataaca aacataacaa taaaatatgc aaatgttttt 167880
tattttcctt ttttttttct tgaggcggag tctcactctg tcgcctaggc tggagtgcaa 167940
tggcacgatc ttagctcatt gcaacctcca cctctcgggt tcaagcgatt ctcctgcctc 168000
agcctcccaa gtagctggga atacaggtgt gcgccactat gcctggctaa cttttgtggg 168060
gtttttgttt ttttttgag acggagtctc actctgttgt ccaggctgga gtgcagtgac 168120
gcaatctcag ctcactgcaa gctctgcctc ctgggttcat gccattctcc tgcctcagcc 168180
tcttgagtag ctgggactac aggcgaccgc caccacaccc agctaatttt ttttttttt 168240
tgtatttttа gtagagacgg ggtttcaccg tgttagccag gctggtctca aattcctgac 168300
ttcgggtgat cgccagcct cggcctccca gagtgctagg attacagatg tgagccacca 168360
cacctggcct ttttttttt ttctttgaga cagggtctcg ctctgtcaca caagctggag 168420
tgcagtggtg tgatcatagc tcactgcagc ctcaaactcc tgggctcaag caatcctccc 168480
acttcagcct cctgagtagc taggactaca gacagcacca ccacacctgg ctaatttaaa 168540
aaaaaaaaaa attttttttt ggagagacag ggtctcactg tgttgccagg gctggtcttg 168600
aattcctggc ctcaagtgat tatcccactt tagcatccca aaaatgctgg aattgcaggc 168660
gtgagccacc atgcccagcc cacaaatatt tttctaagct tgtagacaaa cacacacata 168720
tacaaacata tatgtgtttt tttaagtaaa agtgagatat acaacttgct ttgttttaaa 168780
gcttcaacac tattttgtag atatttcatg tcagcacata cgaagctacc actttctttg 168840
aacggcctag tattccatag tacagatgtg tcataattta tccattcccc tattgacagt 168900
tttagggggg ttttttcctc ctctcatttt tcactattac aaaaagtgca gcagtaatat 168960
ccttctttga aaacttgtgc cgcaatctcc atggggtaga ttcctagagg tgattcctag 169020
gtccaacatc tcaaatcttt tttcttttcc ttttttagta aaaaggaaaa gaaaaaataa 169080
taaaacaaga aataaaaata aaaacaagaa aatgaaggtt ctaagggctg agttgacaag 169140
tcacacagtt gttttgaaag acatgtttca aaaatccatt caaatgttgg gttttatgtg 169200
ggacctcaag gaccttggga cctcaagacc ccagtcctct gaatatgtcc tagagggtcg 169260
gcaggcagta ggtgaagcta caggagacct caaagctctc aacccagact gggatggag 169320
gtaagagggg cttcccaagg cctggagact ggatggaagg gtgaatggag acatagacag 169380
acaggtaact gctcccaaaa tacatgggac ttgagcttca tgagactgga ctgtccttcc 169440
ttccacatca caggaaacca caaaggctct gagcacttac agccctctag gagctgcagg 169500
gcatcccaga tgtcttgctg atcaacacac atggctgagg ccatgctggg gctaaggaca 169560
catccaggaa cactgtctct gtcctgtgga ggtgacagtc acaggaaata actgggggac 169620
attccagcct cctcccaagc tctctcttcc caccagacac caagcccctа acatctctag 169680
aatacccatc tacttctctc catggccact gatcgtgccc aagttcagcc ccgaccttct 169740
ctcacctgga tggctgcaat atcctcctcc ttggtttcct ttctccatgc tcccttccct 169800
gcattctgtt gctccatggg agccagtgac ctttctttct aaaggcaaat gtggtcatac 169860
ctcttggcta ctttaaatcc acgaagacag aattctgaat ggcctctgt gctcttcatg 169920
atctcacctt agcattcttg tgttttctcc tgctgcctat ggagccgacc catagctagt 169980
tctccctgct ctttcacatc tgtaagtttt tgcacatgct gttccctctg cctggattcc 170040
cacccaagaa gggagggttg cactgactgc cctgtgcctc cgcaggaaat gggaggggcgg 170100
agacccgggc gtggcccacc agaagacccc gacctgcctg ctgctgactc cggagggcgc 170160
cttccacagc tttggctaca cggcccgcga ttactaccat gacctggacc ccgaagaggc 170220
gcgggactgg ctctacttcg agaagttcaa gatgaagatc cacagcgcca cggtgagtca 170280
cagggctcca gacagggagg cggggccagc atggaaaagg gcagggctaa tgggggtggg 170340
tgggacaaaa ccaaaacgtg tgaggaccgg cccgatggag tcgtggctga gaggggcggg 170400
ggctaaaggg agacgtcgga ctccggtgtg ggcggagctc agaaatgagg tggaggcggg 170460
gctaatgtgg gtgggggtaa tagtgaagct ggggttgcag gaggggtggg gctaaggaga 170520
ggggtcgggg cagagctaat gtcacatggg gcaagagtgg gacggtggta aagaggaggg 170580
gaagctccag gaaacggggt gattttaaga gcgaggtcgt caggaaatga gtgccaagct 170640
gaggcctcct gcagagccgc cctgtgtccc tgccaggatc tcaccttgaa gacccagcta 170700
gaggcagtaa atggaaagac gatgcccgcc ctggaggtgt tcgcccatgc cctgcgcttc 170760
ttcagggagc acgcccttca ggtgcgctgc ggccccacct ctgccgactg tggcagggac 170820
cccctatttt cccctcatcc gaaaccgctc ccccatcccg tccccgacat tggatgggta 170880

gccaccgccg gagctcagag gtcatcttct ccagtaccct cctccctttt tgtctggtag 170940
agcctgcacc aagccatact gatgggaggg gggccgattc ttccagctct gctgggaagt 171000
ccttcctgtg atttgattag tacctccagt tccgcagagg gctgaagacc accctccctc 171060
caagccagct ttcctctcac tgccccctcc tgtaccagga gctgagggag cagagcccat 171120
cgctgccaga gaaggacact gtgcgctggg tgttgacggt gcctgccatc tggaaacagc 171180
cagccaagca gttcatgcgg gaggctgcct acctggtgag gacgtgcagg cgggcccgag 171240
aacactgctc aggaagggcc aggcctgtcc ccatgcttgc atgcacccca ccacccttga 171300
gaccacagag tcattgtgga aagaacttca gcctgctcct gatgggagtt tgtagagttg 171360
ctcccaccag aagagggagt gggcctgcag gaacagggga cagagggaca aaagacacag 171420
cccaggccag tgtagacagt gccttaagtc aggtgtccta aaagcagagc ccaagatgga 171480
gagtcttttt tttttttttt tttttttttg agacagtctt gctctgtcgc ccaggctgga 171540
gcgcagtggc gtgatctcgg ctcactgcaa gctctgcctc ccaggttcac gccattctcc 171600
tgcctcagcc tcccgagtag ctgggactac aggtgcccgc caccacgccc ggctaatttt 171660
ttgtattttt agtagagacg gggtttcatc gtgttagcca ggatggtttc aatctcctga 171720
ccttgtgatc cgcccgcctc ggcctcccaa agtgctggga ttacaggcgt gagccaccgc 171780
gcccggccaa gatggagagt cttatatgtg aggtctattg aagaaggttt ctcaggagaa 171840
aggcgaggga gggaggcggg acaggagaag gagctatgaa ggatgtggtc tttgctggag 171900
tctagcctca ggtttagcct cagctagatc ccatggggag ctgcagaggg agaactgtag 171960
cacagagttg gggccggctt cttgcacatc cgtatcggtc tgtcactggt tctggggaaa 172020
tgggagggaa acctctccaa gtgaggccat tcccattcag ctgagggcag ttatccagag 172080
gaggtagcag ctgtgagcca atagcagcca acactcacag tggcaggcag ggcacccaga 172140
acattcactt cacttggcat cagtattttg agggacaccc ccaccaccgc ccacctttgt 172200
tggttcttga gcaggggaaa taggactatg aaataaaggg aggcgattct agccaatgca 172260
tacaggtctt cctaccactg agatgctcaa aggtctagag caaggagttg gggggggctc 172320
ccgtggagac agagagggca tagcctcaag actcattgct tggtcgtaac cctagagcct 172380
tggatacaga ccctaagctg tccaaaaggg atctcaagcc tgcctgtgga caccctggag 172440
ggacccccaa tcctcccata cctatgggcc aggcatgacc cagggccagg tctgtaaatg 172500
tctacacttt tcactggaag gagctaaccc tgagcacagt ggacatccct gtgcaaagat 172560
caggatggaa gcaaggctgt ccccagccag aacaaacacc tgctccccca gcgtcccctt 172620
gcctattttc ccaccctcct tctcacgctg ttccctggct gctcaggaaa gtctggccct 172680
gggtaaaagt ctccattcac acccttatcc ctctccccta tctggtcaga atctggggaa 172740
ccctacaaaa ccataatata cttcccacag ggatccccta ccctgaagga aataactcca 172800
gatctcaagt gtttttctcc acccaactgg cctgtcttgg tgcctggaat ttcagcttcc 172860
tccctgctgt atcagattcc ctgggaacaa agttctcctg gaagtggggt ggcctatggc 172920
taccgtctga caccagccta gtggagaaag agggttcaat gagctaaaag ggctccccac 172980
cacctcctct gagccatcac acaccccac attgtgctag agtctctgcc aataccccca 173040
gccagcgctc agctggccgc ttgtacctgt gaaggggaac cttgctgcag ccccgctatc 173100
ttgggaaatt tgaaggggca gatcccaggg gttctaggtc tgcattctgt ctagagtctt 173160
ttcctgctgg gcaacttctt ggcatatttg gccagggcca ttccctcccc agcctggtca 173220
cagcgtggct atgaggcagc tccaaatttg tgcagcacag aggggcctga gaggcctaac 173280
atgggtgggg tgtgatggag gaggaggtgg gagccccaca ggccgcggtt ccccacctca 173340
cagtgccatc ttaggtgtga cagcccacag tgctgcctga ccctgcccac cacccatccc 173400
caggctggac tagtgtcccg agagaatgca gagcagctac tcatcgccct ggagcccgag 173460
gccgcctcgg tatactgccg caagctgcgc ctgcaccagc tcctggacct gagtggccgg 173520
gccccaggtg gtgggcgcct gggtgagcgc cgctccatcg actccagctt ccgtcagggt 173580
gagctgcccc cggggacacc acccacccct ggagggtcag agggtcactg aagccagaag 173640
ctcagccatg tctagtatga aggggagagg gtacccaccc tggaggagcc caatttgagc 173700
aggcagaaac atggctggtg gagcctgtct gaggaaggga ggcacagccc tgcccaaggg 173760
caacctcgtc tcagggtggg acatgcccta cctagggcag cccaatctca gggtggagat 173820
ttcaccttgc cctaggggag caaagtctga ggagggcagg actccgccca gccctgagtc 173880
tgagggttgg gggagacaca gactacccca ggaggaaact gctggggtac tgacaaagga 173940
ggaagtcagc ccactgcatc agctgtcccc ttcactcccc tcatcttccc cgacacacat 174000
cagccccaag ctcctgctgc caggaccagg cacccaggcc aaggacagct atggtcatcc 174060
tcccaaatgc catctcccag ggcagggaga agccctaagt cctgagtccc ctctgagact 174120
ccaaagacct acctgcctcc gctcctccaa acccctctaa ccctgatttt gccatgacct 174180
gagacctcct gcgttaaagg aaggccctgt gtccataaat atttccccac agctgttgga 174240
tacagggtgg gagtttgggg ttcaggattg ccctctccca gtcaggagca ggttggagtt 174300
tcaggagcac tggctgctcc cagtgcccat ggaggtcctg ggcaggagga tgggagttga 174360

acgccatagc tggagcacct ccttctaatc tcactccctg ctgtctcctg acccccagct	174420
cgggagcagc tgcgaaggtc ccgccacagc cgcacgttcc tggtggagtc aggcgtagga	174480
gagctgtggg cagagatgca agcaggtagg gggaaagggg gacggagtgt tatccttggc	174540
ccctaccggg caccatatac tgatgggggg aagggcatgt ttgcaaagcc cgtctcttcc	174600
tcctccattc gctgtaccca acctggccgt cccctcacag tcacccgcac ccccacccca	174660
ctcacagcgg cgcccctaac tcccactcct ccaggggatt ctccgcggac gctcgggtgg	174720
agttgcagag cctctggaac catttctccc ccacaccctg cgcccatatg tggtggtctg	174780
aggttcaagc acctgaagcc cctcacgtcc ctcccccgac cctgcagaca ggccttggga	174840
cccggggcag ggctggaggc tgggcgaggc tggagggggc gcagggctga gggtgcgagg	174900
ccgcccacga gtgtgtgccc gcgctcgccg ccgcaggaga ccgctacgtg gtggccgact	174960
gcggcggagg caccgtggac ctgacggtgc accagctgga gcagccccat ggcaccctca	175020
aggagctcta caaggcatct ggtgagtagc caggcggcgc cccggtaccc agcgcgaccc	175080
gggctccggc cccgccactg cccctggcg gcccggcgag cgctgacgcc ctcttcgccc	175140
cctgctccac cccagggggc ccttatggcg cggtgggcgt ggacctggcc ttcgagcagc	175200
tgctgtgccg catcttcggc gaggacttca tcgccacctt caaaaggcaa cggccggcag	175260
cctgggtaga tctgaccatc gccttcgagg ctcgcaagcg cactgctggc ccacaccgtg	175320
caggggcgct caacatctcg ctgccctttct ccttcattga cttctaccgc aagcagcggg	175380
gccacaacgt ggagaccgct ctgcgcagga gcaggtgggt cctgagcccg cgggctcagg	175440
cagggtttgc cgacccggga atgaccgtgc actggagggt cccgggcccc aaggaacggt	175500
gggggtctgc ctgattcatc ccacatatac actaagccag cagggcgtcg gggtgggggcg	175560
gcggggagcg gcgagtgagt gccccagccc agcaggctcc acccacggaa tccgcagccc	175620
gaactggggc aagacagaga atcatagcgg ggaggcggca atgcctatct cctcccagcc	175680
ttctctacac ccccaccccg ggccctgcgg gcccatgctc ctcggtttcc ctgcaccaaa	175740
gcaaggggag gcccctccca ggacctcgta cctggaacct ggagcaggct ggcaactaaa	175800
tcctctgagt gagtagggtg gagataaggg actaacatcc cgcaggtcca gtcctccaga	175860
caccacgtgc agtcggtgcc caggcacttc tgcctggagg cagaggtaga gaataaggac	175920
cacggacccc aaactggggc aagcagctgg gccctgaccg atggatattt gcccctttca	175980
ccaccaacag cgtgaacttc gtgaagtggt cctcacaggg gatgctccga atgtcttgtg	176040
aagccatgaa cgagctcttt cagcccaccg tcagcgggat catccagcac ataggtgagc	176100
acctgagctt ggtccccaac ccgccctac atgaacaaac agatgcagaa taattccccc	176160
ctatcagtgc ctagatacct ccacacatcc atacactgtg atgagaccta gaatcatcta	176220
gaacacctgc gggatgaagt gcagtggtga ttaagagcta gaggggttgat atgtagtctt	176280
gccaaggcaa aaaacttctg gtgcctcagt ttccccattt ataaaatggg gtgatagtat	176340
tgggttctca aaacgttatc acagggataa aatgagctga agtacctaga gtgagcacaa	176400
tgtcttgcac acaatgtcta ggtgtttaat acgtgtaaaa tgcatatcct tatctctcgt	176460
cctccacgtc gtggtgggag agaagtgggg agcgtgagtg ttgggaggc gaagccctcg	176520
aggactcccg tgagctctca aagaaagtgc tcaaatggct actttctagt cgccaggtag	176580
gtacaggcta gggaggggag gcgccggtgg ccgcctagtg gtggcctcag tggctctctc	176640
tcccccgccc cttctcctct gccccttca ccccgctccc cccgtcctgt cccgcagagg	176700
ccctgctggc acggccggag gtgcagggtg tgaagctgct gttctcagtg ggcggcttcg	176760
ccgagtcagc ggtgctgcag cacgcggtgc aggcggcgct gggcgcccgc ggtctgcgtg	176820
tcgtggtccc gcacgacgtg ggcctcacca tcctcaaagg cgcggtgctg ttcggccagg	176880
cgccgggcgt ggtgcgggtc cgccgctcgc cgctcacctа tggcgtgggc gtgcgcaacc	176940
gctttgtgcc tgggcgccac ccgcccgaaa agctgctggt tcgcgacggc cgccgctggt	177000
gcaccgacgt cttcgagcgc ttcgtggccg ccgagcagtc ggtggccctg ggcgaggagg	177060
tgcggcgcag ctactgcccg gcgcgtcccg gccagcggcg cgtactcatc aacctgtact	177120
gctgcgcggc agaggatgcg cgcttcatca ccgaccccgg cgtgcgcaaa tgtggcgcgc	177180
tcagcctcga gcttgagccc gccgactgcg gccaggacac cgccggcgcg cctcccggcc	177240
gccgcgagat ccgcgcgcc atgcagtttg gcgacaccga aattaaggtc accgccgtcg	177300
acgtcagcac caatcgctcc gtgcgcgcgt ccatcgactt tctttccaac tgagggcgcg	177360
ccggcgcggt gccagcgccg tctgcccggc cccgccctct ttcggttcag gggcctgcgg	177420
agcgggttgg ggcgggggaa acgatagttc tgcagtctgc gcctttccac gccctccagc	177480
cccgggggag ataaggtcat gggagagtgg gtggggacac acccagagac tggctttggg	177540
attgggcact ggtccgctga ctgccaggct gaagggaccc gccaaggact gaacgggtaa	177600
gagaagaggt ttgcaagaca gagcgcgcag cccggcaagg ggcatgtgac cccgaaggaa	177660
gaacgcaaca gaagagtcct ggtctgaact tggccgagta ggggtggggg tgggatggca	177720
ggaggagccg caggaggaag gaggttgtgc agggtctgga cctgcagggc tgaagttcac	177780
tcatcgaccg actcagcccc aaccgggagc caggcagaaa aaccctgtgc cgtaggaaag	177840

tgactggaag tggactccag agggacaggt gtggtggcac agtcctggtg tggtgctgac 177900
cacccaaata tgactgtgaa ttgtggaaag ggcagtagat ctctaatgtg gaggtgggaa 177960
cattattgtg gtggaggcaa ttatgagggt agcatttctt tcgagacaaa acacccgtct 178020
gggaaggccc caaggtcagc ttatgaagga ccccacttgc accccacccc agccatggaa 178080
gagcagctgg agggtggatg gggaggccag agggagcaat gaggggtggt cccagctctg 178140
ctattgactc ggtatgcctt taggacattc tcttaccgct catgggcctc agtttcctaa 178200
agtgtgaaat gtcaggcact tccctctaac tggcatgcaa cagcccacac tgcctgagag 178260
ccctgaggtg acaataaaac atttatgctc aaggggaagc cacagcctgc tgatatggcg 178320
tggagaccct aatagtggga ggaatgcaag ggttcccggt gctagagaga gaagggagaa 178380
agctttcagc tgtgcatagg gaactgacca gaaggggtg ctgctgtctc ccatcaagca 178440
tcccaaacaa ctccactgct taagacctct ctggcctaca catgaggtcc ctctctcctc 178500
attcaaatta attgtcttgg aagccagctt ctggcctaaa atgccaccac ctgtgcatac 178560
ctcttgtggg gctaggtgct ataataccac gcggtgcccc tgcctcctga gtgagtctac 178620
ccaagtcttt ccctggccca tctgcaaagg agtaggcatt accccaaccc cagagaacaa 178680
aaatccacct ggcctccggt atccactgga agtttatttc tttagggttc tatcccaacc 178740
agtcgcttaa aaaccaagta acacagacct gaggggtggg ggctggggac tgcacctccc 178800
tcctactcat ggtggacagc agtggggact agggagggcc aggagaggtg gctgaagcaa 178860
ggcagcagta atggggccac gacgccacag agccagctcc gtcctctccc agaccctggt 178920
gggagtccct gtggcttggg gtggggagtg ggggacccac cccaggccct ccctctccct 178980
tcctcagaca gcctcctttc gggctcaacc catttcttcc ggcaggagac tgaggcacac 179040
agagaggagg aagtgggaga ggaggacgag ggaggggcag ggtggcagca caaatgaagg 179100
cagaggtgag aggcgtgggc aaggccactc caccccaca ccccacccag agaggggcga 179160
ggaagccaca ccatcacgca gcatgtcggg gggacaaggc ggggtttaag gctgaggggc 179220
ccggggcagg cggggcctcg ggcctcagtc aaagccgtgc cagtcgctgt gctctgagtc 179280
gtattccagc tcggcgccca cacacttgac accatccagc agcatgggcg tgccgtggtg 179340
ccggtctgca aggcagggtg caagtcagtg ccatgctggc ccccggcccc acccatgcgg 179400
cccactaagg ggaccectcc ccttccctca gggatcagct ggaggtaggg acctgccaag 179460
gaggttgaga acccctgagc cgggcaagga tcccttgttc agccttggtt ccctgaggag 179520
gacagaaacc ctcgcagtcg agcttgtgca tccctcctcc aaccaggagc ctcacgctct 179580
cacccatgac gcgggcctgc accgtcacgc gcacacaggt gccagtgcca ccttcgcagg 179640
ctagcagtat ctcctctttg aggacgccct ctttgtgcgc cgagtactca cacttgacac 179700
tataacctgc ccggggacag gggcaattgg tcagcacctc ccccagcctc cccgatcctg 179760
cccctggcac tcacgggccc ctacccacca ccatgggggg actgcatgct aagccccccc 179820
aagaaagggg cagggatggc ccttctggag cccagagacc cattcccact agcaggggtg 179880
cacaggtctc aaaaacccat tcttcagtga gctggacatg cctccagcct gtgggccacc 179940
ccaatgtggc tccaagagtg aatgaagtag ggtccaattc aggcttccaa aagaaggtct 180000
ggctgttttc tcccaaaagg aaggcaggga gaggcggtga tgaggagtga ggggggcagg 180060
gcaggggtagg ctttgagcag atccgatggc aagaggtaaa ggcctgaggg gtgtcaatcc 180120
attgaagggc aaggtcatga agaggctggt gacgggggca tgaaactgaa gctggagctc 180180
cacgaaactg acaccctagc ctctgccagg ctgggagtgg ggcatggggc agggcctgaa 180240
gtgagcctga tagaacagc agcctgaaac ccaaggtctg ggactggtgg gtgctaggag 180300
ttatccacac ggtgtgtgta gctccagcag gtttttctag agggttaggg aggcaggagg 180360
gaaggctgga ggcttcaaac cagttcctca gcagctccca tcttggttac tgccccacgg 180420
aggtaaccat cacaccatgg gcaggtacag ggaagtatga gctcatggac ttctgttcag 180480
gacagggagc aaggcctgga gtgtgggacc tgccatgctg ccacagtgca agctcacaaa 180540
gaggtgccac atccccgact tgctgagctg cccatccacc ctagttggaa gtaagggagc 180600
accccatgtt ctcactccca cacccatcca ggccctgctg gaggagggga cgcaccttca 180660
gggacgggca ccacgctgag gagcttgagg tgcaggctgg ggacaggtgc ctcgcggaca 180720
tccttgctca gcctgtgcac tgggggcaga gtgaaggtaa tctcatacct gtgcaggatc 180780
ttcaggaagc caacctacag caggagaggt gagggaggga ggcaccttca cttcctgctt 180840
cccacaggcc cacccagttg tgccacctat gatcccatgc gccccagcac ctgcttcccc 180900
agagagccca gaaagcccaa ctccctccat cactccagct gatcgacccc cagcctttc 180960
acagaccct tgagggtccc agcctcacag cttggccagc aagatcctca gcatctgtct 181020
cacgggcccc aaagtcctca gtggctcatt tcatagacag gaaaatggaa accacaaaat 181080
gactggccaa aggctatgta gtgtggccag ggtcaagtcc tccctagact tcttggccat 181140
tcctgctatg catggcaccc agcaaggcac cacccactgc ctacaaggga aagttcaaag 181200
tcccatgggt cattcacctg tccccatcac tgccagtatc ccagggtcag ggatgctggt 181260
cctccattcg ctcataggat gacaccaggc cacagatagc gtgggatgag ggatgggatc 181320

aaattagaga tatgacagta gaccagctgt gtcagcccag agctggccca cagacctggc 181380
accagccact gaactggggc tcctggctgc cctgctggca ctggactggg gatgcctgcc 181440
tgcccactca aaggctgtgt ccaatggccc atactcacga cccaagcaat ttctgttgtt 181500
cattcacagt gcttggtgac aaccaccctc tgggacaaat gccattcttg gaaactccag 181560
tagtatgaag ggtcacaagc cagggtggtt gctgagcagg ggggctggtg ggggtgccac 181620
gccagcaggc aaagggtgcc tgctgtactc ccagcttgca tgggcacaca gagtcctgct 181680
cacagttact ggggctgggc agccccatcc ctgggggcca actgggactg gctgcagaga 181740
gttttagcca ttcaatggga ccaggttgat attgctacat gacaaacttc aatccatgtg 181800
ccccccтcat gctctgctgg tagggggcac atcctcaag aaggctttct ggctgtacct 181860
gctaactgtg accctgtgac ccaggggtac tacttataga attttccagg ggaaatagag 181920
atgtgcagaa aaatactctt cgctgcccta tttataacaa tgaaaacaaa aacagccgta 181980
acacccagga acagggagcc agctaagtca atgatgacac atatcatgga ccagtaggca 182040
gttgtaaaat ctcgtggaaa attatttact gacacaggta ggagacagtt cacaacagaa 182100
gcaagcaaaa accagtgtgg acacggtgag gccagctttt gtttttggaa acaaagcttt 182160
ttaaaataag ctggatccat caccatagtg ttttcagaaa aacaaataaa taaataaata 182220
acattttaaa aagctggaat aagccaggtg tggtggctca cgcctgtaat cccagcactt 182280
tgggaggccg acacggacgg atcacgaggt caggagatcg agaccatcct ggccaacaga 182340
gtgaaacccc gtctctacta aaaatataaa aaattagctg agagtggtgg cacgcgcctg 182400
taatcccagc tactctggag gctgaggcag gagaattgct tgaacctggg agctggaggt 182460
tgcagtgagc tgagatggcg ccactgtact ccagcctggt gacagcaaga ctccgtctca 182520
aaaagaaaaa aaaaagctga aataacacac atcagaatat taaccatggt tattttggga 182580
tagtatgact gaccgtacgc tgaagaggat gcgtattgac tgtgctttcc ttctttgctg 182640
gtggatatga aaactggaat ggacattgct atgacgggat ggagctttct tacaaagctg 182700
agcatgagtc ttaccataca atctagcaat ttcactccta gatgactacc caagtgaagt 182760
gaaaacttat atccagggcc gagcacagtg gctcacgcct gtaatcccag cactttggga 182820
ggccgacacg gacggatcac gaggtcagga gatcgagacc atcctggcca acagagtgaa 182880
accccgtctc tactaaaaat atacaaaaatt agctgagagt ggtggcacgc gcctgtaatc 182940
ccagctactc tggaggctga ggcaggagaa ttgcttgaac ctgggagctg gaggttgcag 183000
tgagctgaga tggcgccact gtactccagc ctggtgacag caagactccg tctcaaaaag 183060
aaaaaaaaaa gctgaaataa cacacatcag aatattaacc atggttattt tgggatagta 183120
tgactgtggg tacttttaaa tttcttcata ttttctctgt cttccaaatt ttctcatgtc 183180
tattaagaca tgagtggatt ttgcaatgag gggagagagc tatttttaag tgttggtttg 183240
ttccatttac tctcttgggg aagctgtcag ctgtaggaca aagagtggga acttcagagt 183300
tggacagaaa tggatacaaa cctgggcccc ccaggttctt ttttgtttgt ttgttgaga 183360
cagagtcttt ctgttgccca ggctggagtg cagtggcaca atctcagctc actgcaacct 183420
cagcctcctg ggttcaagca attcttctgc ctcagcctcc caagtagctg ggactacagg 183480
cgtgcgccac cacgctcagc taacttttgt atttttagta gagacgggtt tcgacccatt 183540
ggccaggcta aacctgggcc ccttttgagc agcgcagcag acccccccact cagggccatc 183600
tcaatgggcc agacctcccc cgacccaagg gcactcctgt tcaactctgg acccctgatt 183660
tattgaccaa cctgaaggcc tcagtctcca ttttccccaa tccagctcca ccaagcagaa 183720
aacaggggggt gataatacta cttcaaagag cctaactgag ccagagattt ggcaaagaag 183780
ggttaaaaaa aaagttgcac cttgttattg ccatagttag cttcacacct gtatcacata 183840
catacattct tccatttctca caccaactct aggggatgtg attgtctcca cttgagagaa 183900
aagaaactca ggtgaccttc ccaaggtcac agagccagaa tggctggcct agacctgaac 183960
tcaggccact ggcaccacag ccacgacact gccttccatt gctattgtct gggtgaagca 184020
gatgacagca gtggctctgc tcatcttgat ctggatgaca ttctaaatgc tctcatctca 184080
ttgaaatctc actgcctccc atctgacaga tggggcaacc aaggcacagg gaaaggcaca 184140
gacatgccta taagcccggc tgagaggaac ggggataggc acccagaagc caggcagagc 184200
cggggagggg aagaagctgc tgatggggta ggtgtgcatg taccttgacc agaaagctgc 184260
tgtcactctc ctgggtgacc atgaccaccg agtcatgcag cttctcatca aagtggacgt 184320
ggctgtggga tccttctgca tcgtggcctg ccgcaaagcg gatactccgg actctgggct 184380
tgttgcctag gaagagtggg agagggctct gagggctttc cctgtcccca ggaaactcct 184440
ccccctтgtc ccctcgtcac ccccaagact gcccttgaca tcatccagct cccactggct 184500
gggctctttt cagggctaga tggacactag gatcatgagg cttgaggcct ccccgccggc 184560
cccgacctgc ccctcccaca aaaatccatc ccctgagagt gagcgtgggg ggactcaggg 184620
actggctaat atgaccctтg cttggagggg gtggggctgg tgccagagcc aggaagggac 184680
agtcttccag actcccacca agccagggca gcgtgggact cagcccagtc ctctggatac 184740
cctgcccagt gctctccttc acagtgcaaa gctccccatc cctggggcct acccctaagc 184800

tgtgtcagtg catgaggccc ctgcctgccc atcctcatga cccaaacctg aaagggcagg 184860
gacaggaaca ggctctgggg gatctgcctg gggtggcaga aacaggggag atcaaaaaac 184920
acactcaggc cacctgggcg aggctgcagc tgccactaaa cctcactggc ccctggcagc 184980
aagaagagag aatccaagga agcttccaga cccacctcaa gacccccttc cttcctctgt 185040
ctagcccacc atcaaggcct tcagctgtct ctgagctggg tcgggttctc caaggccaga 185100
aagggcagac ggatgagaca ggcagggtag gcgggagccg agctgaaggc ctggactgga 185160
tgaatgctca ggctgtagag gccgagagca cggccctagt cctctctgac ccctggccct 185220
taggccctcc caccaagagc cctgcccagg gtcctcttgg cgggaggacc tgatccagct 185280
ttgagccggc ctcttggata ctcggaggcc caggggacca gcctggcaca tccacaatcc 185340
ctggtgagcc ccacagaacc ctcaaatctc accagatcac cctggcctaa aaccctccct 185400
tatcccttct ggactctgaa agaaacccaa actcccttcc acagcctgct gtggccctcc 185460
cacatcacca gtctcagtgc tcaccataag cccctcggct ccccaaccc ccacagtgga 185520
acggcaggga cacaagagca cacacctcca cagaccagcc taaggagtca gcagggctct 185580
gcaggggtcc tgctagggct tgcgtgagcc ccagaacctg gcacaaacac tgacatagtc 185640
ccaatcacat tcgcacacca gcacacacgc actcacacat gcacacacac acacaggtgg 185700
tgcgggccct acctgcagca atggccctcc taccaggcc caccggaaga gcttgtgcaa 185760
gtcctaccac gccaggaagg cacttaccct tgttggctgc agccatggac gccctccctg 185820
ccacgcagct cctgccagac accgccactc acgctcagca gcctcccatg ctccagggac 185880
accagcggga gcctgaagga tagggagtgg ggagggcagg ggtcagggcc acccatggac 185940
ccatggctca gggacaccag aggagctccc tttaggaagg actcaaaccc ctaccgctct 186000
cagcagccca agtggtgcct gtactctcta gcacgggggc ttctgcccac cctctaccga 186060
ctgcccacat tcaccaagag ccctcacccc ttcctgatac cccagtgact cagggtcctg 186120
ccagcatgtg ctgagctgca gctttctaggt gccaaagcaa cagcatagga ctcctatccc 186180
cagcaccccc agagactggc aggaggggca gcctggaaag gaggacttta ttggtatttt 186240
ccagggacca gttctggtgc tgctgacccc aaaggctggg cctggagcta ccttattcag 186300
gtcacacaag caatgcagct gggtgcggtc agaggcaaca gggtgctcga tggtgggcaa 186360
gaacagggga ccacatcaag taagcgtgcc cttagagctt tccctcctgg tgatcggtca 186420
gggccatatg caaaacagat gcctgtggag ggggtgtgcc cccacctgaa ccccattcag 186480
accctgccct gagtctcagg cctgcctccg cctcagctcc ccaacggcag cctcagcaca 186540
ggggcagtga gaggcacccc aggaagcctc caatgggccg agctgggacc atctgagcat 186600
caaaaagaat aatgagtgca actgatggaa acagatggaa cacataaaag cagtgcattc 186660
acagagatta ttagaaaaga agagagaaag caaaacaaac aaacccaagc cctcaaagac 186720
cctcatttgt caccactgac ggtagcagtg ccctctttac tctgaaagct gaggattaaa 186780
gaggaagaat tcagcctgtc tcttggcctt tcttgtaacc aaattgccct ggtggttgat 186840
ggaaagctct tctttcggga agaatttctg ctaataaata acaaagaaat gaccaaatgc 186900
taagtcattc tgcaacccct aaaggaacaa atgctgagag caacaagaac cagtggatgc 186960
taaaccagag gggaaggttg acaggaagca gatactcaca ggcgcccaag cgtcactgac 187020
agaggacctg gtatggtttt tgttttttt ttttttctga gacggagttt cactcttgtc 187080
acccaggctg ggatgcaatg gcacgatctc ggctaactgc aacatctgcc tcctgggttc 187140
gagcgactct cccgcctcag catcccgagt agctgggact acaggcgccc gccaccacgc 187200
ctagctaatt tttgtatttt tagtagagac agggtttcac catgttggcc aggctggtct 187260
cgaactcctg acctcaagca atctgctcac ttcggcctcc caaagtgttg ggattacagg 187320
tgtgagccac catgcctggc cgaggacctg gtgtttaaga ggaatggcac aagtttgcaa 187380
tggaggtatg tgacttctcc cagtcacaca ctggtctatc tctctactct ctgcaggaca 187440
gcctgtcaca ctgatgcctc ctgaagtaag gcagcccaaa gtcacagcat cactgacaag 187500
ggattcctgc caaaaaggtt taacctggaa tctaaaccag cctctaactt caacttctca 187560
tttgctaaaa acacagagga gaggggaaca aatttaatga ctccatgaga aagcaatgag 187620
acgagcccag aaggcaggat attctacagg atgactgacc tgtttttgt ttttgttttt 187680
gttttcaaat gtcaagaaga aaaagaaagc aggctgggaa cggtggctca cgcctgtaat 187740
cccagcactt tcacggatca caaggtaagg agttcaagac cagcctggcc aacatagtga 187800
aacccagtct ctaccaaaag tacaaagatt agccgggtgt ggtggcgggc agctgtagtc 187860
ccagctagtt gggaggttga ggcaggagaa tcacttgaat ccagaaggcg gaggttgcag 187920
tgagccaaga tcgcgccacg gcacttcagc ctgggtgaca cagcgagact ctgtctcaag 187980
aaaaaaaaaa aagaaagaag aaaaataaaa cgagggagat tattctagat aggaaagcag 188040
caaactacag ctgattacac agctgatggt aaggttgctg cctgttgtgt ttttgttttt 188100
gtttttgaga cagggtctca ctctgtccag cccaggctgg agtccagctc actgccaccg 188160
taatctccca ggctcaagca atcctcccac cccagcctgc caagtagctg agaccacagc 188220
cacgcaccac catgcccggc taatttttgt agagacagag ttgcccaggc tggtctcaaa 188280

ctccggagct taagcgatcc acccacctca gcctcccaaa gtgctgggat tacagacgtg 188340
agccgccagg cctggcaaat aaatttttgc aaataaagtt ttactaatag aacactacac 188400
ttcattcact tacatgttgt ctgtttttgc actaaaacaa agttacttcc aagtagttat 188460
gatagagacc atatggcctg caaagtctaa accatttatt atttggccct tcagagcaaa 188520
agtttgccaa cccttgttct agatcaacac acacttaaca gaccaaaaaa ggataatctt 188580
caggacaact gacctgtttt tttcaccaca tcagctgcaa gaagaaaaat aaaggagagg 188640
gtgtttcgaa ctacctatca aagaagacat tttgggggtt gccgggcgct gcccgctaca 188700
cctgtaatcc cagcactttg ggaagccaag gcgggtagat cacctgaggt caggagtttg 188760
ggaccagcct ggccaacatg gcgaaacccc atctctacta aaaatacaaa aatcagctag 188820
gcatggtggt gtgcacctgt aatcccagct actcaggagg ctgaggcagg agaatcgctt 188880
gaacctggga ggcggaggtt gcagtgagcc aagatcccgc cactgcactc cagcctgggt 188940
gacagagcga gactctgtct caaaaaaaaa aaaaaaaaaa aggccgggtg aggtggctca 189000
cgcctgtaat cacagcactg tgggaggctg aggcgggcgg atcacctgag gtcgggagtt 189060
caagaccagc ctggccaaca tggagaaacc ctgtctctac taaaaaatac aaaattagcc 189120
aggcgtggtg gcgcatgcct gtaatccagc tactcgggag gctgaggcag gagaatcgct 189180
tgaacccagg aggcggaggt tgcggtgagc cgagattgcg ccactgcact ctagcctggg 189240
caaaaggagc aaaactccgt ctcaaaaaaa aaaaaaaaaa agacatttgg gggatctgga 189300
aaatgtaaat ggcctggata tgaggtaaca ctaagaaatg agttgatcat ggaattgtat 189360
tatgtaaaga attatgtcct tattttgtca gggaaacata ctgaacaact tagagatgag 189420
tgacactggc tcatcagtcc agggacagaa gaggaactac agggtggcct catagtttag 189480
ggctgggcct gtggagggca tgatctcaag gtccctctgg tgccaagctg ctctgggagc 189540
agatgtggcc tcacctcgct ccccacttct caatgtgggc aaagtccacc caggcccaag 189600
ccctgcctca tgggcagggt gttcacagtt tgggtaccac caggagccca ctttggccaa 189660
tggaccaggc cagcaacccc ctcttggagg tgagcttcca ggccccagcc cagggtgcag 189720
gaagtggagc tacacccatt cacctctggc cagggccact gtggggtcag ttgcctcagc 189780
cctggaaagc tcagcttgtc cccagggaac ttggtcttgg agagcagcct gccgtaaccg 189840
ccccccgact acagctgccc ccaaagctgt gaactcagag tatatgacaa atggccaagc 189900
acaagagtgt gaggccctcc tatcctgcag aggctgctcc agccacacct ctgcagccag 189960
gaggcagtga cagcccagtg tcctcaaggt ccccccatct cccaggatgc ttcctgaagg 190020
ctcaggttaa actgcaccag tggctggtga gcaaaggctg caggcccttt tcacaaaaca 190080
ctctgaactg gtccatgcag ggcaccctcc ctgtcttcct cccaacctac tgcctgaccg 190140
tccccccgcc ctgcctttgc ccaggtcatc ccttcagcca ggaacaatcc cgtccctccc 190200
agccacacct tcgacagggt ctcagcccca acatttcttt tttaaggatg cacaccctgc 190260
aaatcccagg acaggactac agctcttttt ggaatcccct ttctcatgtc tgggatcatt 190320
tgatatccct cttcctcacc ttacaagggt agtgactgtg tttttgtcaa accctgtgtc 190380
cccggcactc agcgcagcac cagacaggga ggagctgtgt ttggttatg ttttgttgaat 190440
gaatgaccac atcacatttg cttggagggc ctggccaagg cccgtacttc agccctaaat 190500
gatatggtca gggccagtga ctgcactggg ggctctgagg aagcagaact ccccacccca 190560
ctcttttgcc tcaccctgc cctggggggc acttcctct ccctggccc caccaagtgg 190620
cctcccactg ggactcctca ggccttgctg cagtcagctg gttacctgtc catgcctgct 190680
ttgagaggga catgcccat gcccactgag ggtaggaccc acatctcatg cagtgccagt 190740
actcagtaaa gggcaaacac tgagggcctg taaccctctg gatagtgaca acatagaggc 190800
aggaagcaag ggacttcagg aacccaaagg aaactgggaa aaccaaacct cctttctcaa 190860
tggagaacct gctggtcgct gtcctcgggg agctagactc ttgtgcacac acaattcctc 190920
atcagaaaca ggcaaagagg gcactgggcc tcccctgctg cagctgtgtc cacagagaac 190980
agctaggcca ccacacaacc ccaagcctgg ccctgcctcc agcctcctcc tgtgccaacc 191040
aaggcctcac catggctcaa tccacatggc ccccagaggc agcagtcctg gttcaaattc 191100
aggatctgcc cttgctagct gcatgggtga gttctttcac ttctctgtcc ctgtttccta 191160
atgtgtaaca caggaataag cagtggcctc ttcctccag ggtttgctgc aactgtgcct 191220
gaagctctgt gacaatgcac ccccatctc tgcaaaagca aaccccaaa ggcctggttt 191280
ctaaagcaac agcagtttca gcagcaccgt cagagaggca cttcaggcca atcctggagg 191340
agccaggagt gaccctaga gtgggcccca gggacgtcag ccttcttgga aaacagctca 191400
aggggtgagg gggcctcoct cctcctgcct ccccctctc ccactcccaa agcagccagg 191460
tccctaggga gggtcagaga acagatgctg ggagtttcca gtcccctaa ccagaggggg 191520
tcacaaggaa gatgtgcaga atgaacatcc tgggaaactg ggaaatgact agggaggaac 191580
atggtgcctc ccccccagca aaaaaaatta taccctccc catgagatgg agtgtcagca 191640
agcttccagg ccccagccca gggtgcagga agaggagcta cacccattca cctctggtca 191700
gcatgctccc aacgtctgag acctcatttc tcattccttc ttcagtcccc attctcattg 191760

tggttcgagg tctttctctc tgagccagga actccgcaac cttccaccct ccctacctct 191820
tcctctccta ccccagcctg gggctcagtc ctggctcaag cactcagtcc agcagaagca 191880
ctgtgtagcc tcccattaaa gctcacgcct gtgaaaagaa cacccattga ggcctttgaga 191940
tggggccaca ctgacccgct gactctcagg actggacaca gcagaggcca cacatactca 192000
gaacaaagcc tggaaaggca aggctggagg tcagtagttg tggcagcttc acatcaactc 192060
agctttaatg tgatttaatt tcctttctccc tccagtgggc caaaggtgca aagataagta 192120
tggctgttct ctctccttct aacagtgagg tgctgggggt gggggtgggg gaatatggag 192180
aagggaccct caccacccac accttcctgc ctccccaaca agtgctgccc tcctctgccc 192240
agcattctcc ccacttgcc ctcagctagt gggtgcttag cctccagata gcatgcccca 192300
cctaggccct gccctgggcc tgtgatccag aggtcccaag aagcagaggc caggctggat 192360
ccaggggctc agccaaggtg agggtgggag cacacaggat tatctcccag ggacagggct 192420
gctgcctcgt agctcaggat ggatagaatg tgggggata tccagctaca ttttcctcc 192480
acaaaagacc agaatgggag ggggatgggg tgctgccccg actttcttca actccccgga 192540
gcagaaaaat gccctacctc cactttccag tgccaagatt caagaagaaa ggcaagcgga 192600
gacttccctt tctcagtccc tgcttactaa tggaaacacg ggtccagaac ctaaatccag 192660
tccctcctcc ttcataccac cgggagggag gtgcagccca agcccccgag gcccaaggg 192720
tccaggtgta ggacccttta tcctctccgg cagccatccc tgtgggtgtg gcacccccgc 192780
cacacccat tcttgtcatc tcaggggggag gggggaaatg taatcggaca tccccccat 192840
ccaatccatc ctgagctgcg aggcggcggc tctgtccctc ggagataatc ctgtgcactc 192900
cccaccttca ctcacctcgg ctgacgcagg agtctccgga gcccgcactc ccagacatca 192960
ctgcctcct tcctgagggt gctgaggctc ggaggctcag agatgctact ggtccaaggt 193020
catgcagcga ggcagcggca atgaacaggg tcgtggggag gaggggcgc tgaccccatt 193080
acgcccccgc cctcactacc gcactcatgc ccccggacaa tcgcttcgcg gaaaacaccc 193140
cagctgccac cagttaacgg tcactgcgcc ccgggaacct gacatcactc tagttcaggt 193200
gctggggagt cttccaggcc cggcccccaa cagcggagcc ccccacaccc agccctgcca 193260
tcacggccgc tggggtccca ggcactgact gctcaggaca gggccggcac cggggaggg 193320
gacctcggcg aacgggaagg aaccgggagg cagggacgag aggggtggcc tcaccttgcg 193380
gggtgcaccc cggggccggg gagggcaggg acgaccactg cagcggcggc ggctgcagga 193440
gctcaacgcc gagcacgagg aagggagccc cgcgccgcgg ccgcctctcc gtcggcacgc 193500
ccccgcctcc gcccattggt tgatctggga gggtggggcg agggacgctc cggaccaatg 193560
agcgggctcc aaagaacggc caactggcga gggccgccta cgtcacgtgc cagggtcgcc 193620
gaggcagcgc cctgctagtc cgcgcctgcc gggcgagctc tcgcgaggaa gacgggcagg 193680
cggcccaact aggccagggg ccagaaccga ccactcgaag agggagaagg agggcctcgg 193740
ataggccccg ccccgctcc ttcttccgcc tgggggatag cgcctctagc cttgaacctt 193800
gcttaggacg cacctccctt gggcccttcg ctctcgggag ggctgtcggg cgcgtctcgg 193860
ggctgggtgg agctcccgaa ggtggccttt ctccctgggc ttccacgccg gcttcggcca 193920
tcgatacggg ccgtgttggt ctcgttcagg agctgaggaa ccctccatca ctcctgtttc 193980
gaccccaggg tttggacctc ttcccctccc acccctacct ctgtcttgaa agaagcaacc 194040
cccgtgcggg cccgagacgc gtcccgggtg cctggccggg cctggagaag catcagaacc 194100
aagaaggcac gcgggctggg ggctgggaga gcctgtgacg cgccccggg gaccgcagcc 194160
tctgctcccg gtctccatgg aggcggtcgc catggcagcg agatgcgcct cgctcagcac 194220
cgcgggggtgg gatgtgggcg cctgcaatga gccgaggagc gagaggcgtg gccctccggt 194280
ctgcgggggt tcttgccggt gctctccgcc cgccggttcg cgaacaccca acctatactt 194340
cgcccgtggg gacggattcc ccaaagtgcc ctcagtaagc cgtccggagc acgcagcgcc 194400
ttgcttccaa cggaactaga gagacggcct gggcggccga aggccagcct cccttcagca 194460
gggccgggat cgctgcctta aaggagccct caagtctgcc accctgtggc ccataacctg 194520
tctgctgatc tccagtctgc acactgttgg caaattaatc tttctgagct cttgttttca 194580
tcgcgtccct ctcctgctcc aaagccctct gggactgcct ccagtagcgc ttcacaaact 194640
tcagcagcac tttgggtgac tcatgtgccc tcgcgtttga gagacagcgc ttacattgag 194700
agcttttcac attctgatct cagcccatcc actcctgccc actctaccca ctcccaccac 194760
actacctta gaccttgtct tgaaagtcta aagttggcag acggtgggcc caaagtggcc 194820
cgtaggtgta ttttgttag ctcacatggg gcttttaaa agaagtcctt ccccctcctg 194880
cctcctccgc ctctttctgg aatcaggaat ctggtttcgt ggcttttgaa atatcagaag 194940
atctgacaac gtgggctcac tttccagcct ggcattacaa gcccctttaa gagcacataa 195000
atttaccata gtccccgcta atccctgttt ctcacggtta gttaccttct gggtctgtgc 195060
agacatttgt gatcccctcc ccctcattat cccaccttcc aacctggaag gccctccccg 195120
ctctcttctc atagccaaaa ttcaagccct cttcaaccaa gataagtttt gcctatttat 195180
ttatttattt atttttgaga cagagtctca ctctgtcgcc caggcttgag ttcagtggtg 195240

ccatctcggc tgactacagc ctccaccccc tcccccgccg ggttcaagcc attctcctgc 195300
ctcagcctcc caagtagctg ggattctagg tgcgcgccac cacacccagg gctaattttt 195360
gtatttttag tggagacagg gtttcaccat gttggtcagg tgggtctcaa actcctagcc 195420
tcaagtgatc tgcctgcctc agcctcccaa agtgctggga ttacaggcat gagccaccgc 195480
gcctggccca agcctgcctt tttcaaaagt ctttctagcc aacttctcaa aaccatctct 195540
ggtgtgggct ctctcaaaca caaactggct gctaactgca cagcccgggg ttatttccga 195600
attgtcaact cctttcagca aacatttact gaatgtatct gatgagtaag ttattgtgct 195660
aggctctgtg gagtggaagg cactcacagt ttagtgtagg agggacacca cacacaaaga 195720
actgtggtct cctgtccttg ccaaatgttc ctcacactcc caggcatcgg gcagtctggc 195780
ccactgggag gagctgaaat acagagctgc ccatgcctag ggatactaca tgctctcagg 195840
gaaggccaaa gatggttctg gaaagcctcc aggagaaaat tagactcttt gtgtcaggag 195900
gaagtcaggg caggagttac ctggctgccc catcactgcc caatgtgtct gtgttaccac 195960
acgagtagtg cccaggctct ggggcttcct gtgcggaggg ccttaccaaa gatagatggc 196020
tctgcaaggg aaaccacagg cccctaccag gccccctgga gacagaggca ggacaagaag 196080
aatcaggaac aactccaggt taggagaaca gatggagcac gtataaaaca tccactcacg 196140
gccgggcgtg gtggctcacg cctgtaatcc cagcactttg ggaggctgag atgggcggat 196200
catgaggtca ggagatcaag accatcctgg ctaacacggt gaaaccccgt ctctactaaa 196260
aatacaaaaa attagccggg catggtggct gatgcctgta atcccaacta ctccggaagc 196320
tgaggcagga gaatggcgtg aaccccggga ggcggagctt gcagtgagcc cgagattgcg 196380
ccactgcact tcagctttgg gcgactgagc cagactccat ctccaaaaaa aaaaaaaaaa 196440
aaatccactc accatgagaa cctggtgact tttaaaaaaa aacaaaaaaa cacaacactt 196500
gctacaactc caaacacacg gtttttgttt ttttttttta tttttcagag acagggtctc 196560
actatgttgc ccaggctggt ctcaaactct tggcctcaag cgatccccccg accttgggct 196620
cctaatgtgc tgggaccaga ccagaggcac aagccactgt gcccagccct ctattctttt 196680
taattaaaaa ttaaacaact ataacctcat tggaaaactg cttggcagta cctaataaaa 196740
atgataaatg aaatgagtaa ttccactttt tttttttttt tgagacagag tcttactctg 196800
tcacccaggc tggaatgcag tggtgcgatc tcagctctct acaacctctg cctcctgggc 196860
tcaagcactc ctcccacctc agcctcccca gtagccagga ctacaggcac atgccaccac 196920
acccagctaa tttttgtatt tttttttttt ttttgagatt acaggcatgt gccaccacgc 196980
cggctaattt tgtattttta gtagagacgg gtttctccat gttggtcacg ctagtctcga 197040
actcccaacc tcaggtaaac tgcctgcctc agcctcccaa agtgctggga ttacaggcat 197100
gagccaccgt gcctggccaa ttttttttgta tttttaatag agacggggtt tcaccatgtt 197160
ggccaggctg gtctcgaact cctgacctca ggtgaccgac ccacctcaga ctcccaaagt 197220
gctgggatta caagcttgag ccaccatgcc cagccatggc atgtgtttaa ttttaaaaga 197280
aactggcaaa ttgttttcca aaatgactgt acttacttac actcccatta gcagagtata 197340
agagtttctg ttgcttcaca tcctcatcaa cataaaaatt tgcaattttg taaaaaacgc 197400
tacaccatgc taaccaaaca aagcagggca acggactacc agtcttcagc ctctcctctg 197460
agccatgccc ttgtagagga caatttcaca acagctatca agattacaaa tgcacacaca 197520
aaaaaagaga aaacacacac acacacacac acacacacac acacagccaa catggtgaaa 197580
ccccatctct actaaaaata caaaaaatta gctgggcgtg gtggcaggtg cctgtaatgc 197640
cagctaccca ggaggttgag gcaggagaat cgcttgaacc cgggaggcag aggatgcagt 197700
gaggcaagat agtgtcattg cactccagcc tgggccacag cgcgagactc tgactcaaaa 197760
aagaaaaaag agagaggaaa aaaaacacaa caaagattac agatgcatat attctttgat 197820
ctaggaaccc cagttctgga atttatcatt tagatatact tccccatgat actaaatcat 197880
gagtgtatga ggttatttat tgttgcattc ttgtgatagc aaaagattgg aaataactca 197940
aatgtccata aatagaagac ttcttaaata aatttggtac agacaatata atgttatatg 198000
gctttaaaaa gaaaaaaaaa aaagaggaag ttttcaatgt cctcccaagt agccaggatt 198060
acaggcgtga gccaccatgc cgggataatt tttgtatttt tagtagagat ggggttttgc 198120
catgttatac aagctggtct cgaactcctg gcctcaagcg atccacccac ctcagcctcc 198180
caaaatgcta ggattacagg catgagctac cgtgcccagc ctgctaagga aagattttgt 198240
attagctagg attctccaga gaaacagaac taggaaagag ggcagatagg aaagactgac 198300
atattataag gaattgactc acacaattat ggagtctgac cagtcccaag agctgcaggt 198360
tgggttggca agttggagac ccaggagagc caatggttta gttccagtct gagtcccaat 198420
gcctgagagc caggaaagtc aatgatgtat ctccagtcca aagggcagca ggtttgagac 198480
caaggaagaa tcaatgtttc agtttgatcc caaaggcgag aaaaaagctg atgttccagt 198540
tcaaagacca ccaggcaata aaaattctct cttatttggg gagggccagc ctttttcttc 198600
tatttaggtc tcaactgact ggatgtggcc cactcacatt agagagggaa atctgtttca 198660
ctcatctgct gatttctttc tttttccctt ttgtttttga aatggattct cactctgttg 198720

```
cccaggctgg agtgccgtgg catgatcttg gttccctgca acctccacct cccgggttca  198780
agcgattctc ctgcctcagc ttcctgagta gctggggtta caggcaatca ccaccacgcc  198840
cggctaattt ttgtattttt agtagagacg gggtttcgcc atgttgacca ggctggtctt  198900
gaatgcctga cctcaggtga ttagcccgcc tcggcctccc aaagtgctgg gattacaggc  198960
gtgagccacc gtgcccggcc tcatctgctg atttaaatgt taaccttagc cgggtgcggt  199020
ggtttacccc tgtttttccca gcactttggg aggccgaggc gggcggctca ctcgagctca  199080
ggtgttcggg tcaacatggt gaaacctgcc tctactaaat acataaaaat tagctgggca  199140
tggtggcatg agcctgtagt cccagctact caggaggccg aggcacgaga atcacttgaa  199200
cccaggaggt ggagggtgca gttaactgaa attgtgccac tacactccag ccagggtgac  199260
aaaacaagac tcttctctca aaaataagag taagacaaat gtgcatgttt gtttatagtc  199320
acataaagtc attccggaag gatacataaa aactaaagat agaggttccc tattagagat  199380
gtgctgggaa taagaagact tttcactttt tatgtgtttt ttttaaatca tatatatgtt  199440
ttatctattc aaaacattaa gtaacaaagt ttaaataccc ttgcatgcct tcctctcctg  199500
tagggttgtg aacactggag ggaacaaatc atgttttata ctcacttttg tattcctggt  199560
atttagtaca tagtaggtac tcaataaata gaggaaagaa cgaatgaatg aaccagaaga  199620
tagcagattt agtgtcggtt agagagagga gaggggccag gcacagtggc tcacacatgt  199680
aatcccagca ttttgggagg ctgaggcaag aggctcactt gaacctagga gttggagacc  199740
agcctgggta acaaagcgaa atcctgtctc tccaaaaaaa aaaaaaaaaa aaaaaaaaaa  199800
aaaagcccag gagcagtggc tcacacctgt aatcccagca ctttgggagg ccgaggtggg  199860
gtggatcacc tgaggttagc agttcgagac caactaggcc aacatggtga aacaccatct  199920
ctactgaaga tacaaaaatt agttgggcgt agtggcaggt gcctgtaatt ccagcaactc  199980
aggaggctga ggcaggagaa tagcttgaac ctgggaggca gaggttgcag tgagccgaga  200040
tcatgccgct gcactccagc ctggatgaca gagtgagaca tctcataaaa aaaaaaaatt  200100
agctggatat ggtggtatgc acctgtcctc ccacctattc tagaggctga ggtgtaaaga  200160
ttgcttgaac ttgggaggct ggggttgcag tgagccaaga ttgtgccact gcactccagc  200220
ctgggcgaca gagtaaaacc ctgtctctaa aaaagaaggg agttagggct gggtgcggtg  200280
gctcacggct gtaatcccag cactttagga ggccgaggct ggtggatcac ctgaggtcag  200340
gagtttgaga ccagcctgac caatatggtg gaaccccgtc tctactaaaa atacaaaaag  200400
tagccgggtg tggtggcgtg tgcctgtaat cccagctact tgggaggctg agacagagga  200460
atcacttgaa ccagggaagt ggagagtgca gtgagccgag atcataccac tgcactccag  200520
cctgggtgac agagcaatac tctgtctcaa aacaaaaaaa aagaaagaaa gaaaaatttt  200580
ttaaaaatta aattaaaaat aagggagtta taatcttatc taatgtaatc acaaaagttg  200640
acatcctatc acatttgctg tattctactt atcagaagca agtcactaag tccagcctac  200700
attcaaggaa agggtacaca tgggggtgac gtccaggagg cagggattac tgggagccac  200760
gttaggagct gtctactaca aggaggaaaa agcaatgaaa ggatgaaatc taggatggtg  200820
gttatctctg agtggaagca aggggagag atgcaagaag cacatggccg gtgaaagtta  200880
tttgtaataa ttccattctt ggggcaggtg gtggatttat aggtgttcat aagtgagttg  200940
attatggaca aatgggagga gagtgtcatg aaccaaggat tatatttagt ccaattcagt  201000
aatatttaaa atattcaata ataaatgaaa taaaaattgc caactactcc tgaccttgtt  201060
ctgagcccca tccatgcact ccacctggtc ttagtttaac actggctcca cctgaccctc  201120
cacttgcccc aaactaaccg ttagcccttc acacacactg acccttgcta tagcaccacg  201180
atctctccat agtctgcaat aggccccccgg agttctattc cctgaaactt ttatccatgt  201240
aacctcacct gtaggctgct atatgtaaag atagtaggaa tggctgatgg agtggcccga  201300
ggaccaggag acagggcagg ctaacagttc tgccttagca gtagcactgt gggcccagaa  201360
gacaggtttg atggctggta tcacgacctc acctattggc ctcctacatg gcaaaggctg  201420
ggccaggtcc tgatggttct tcctctttga ggcttctgct cctggtatcc agatatagct  201480
aagtctgtct ctgagaagtg cacctctgcc acagcaccag gcctgtaact ccctgttgg  201540
taatagactc tatcaactct ctccttcct gtctttgatg aagtaagcta ccatactgga  201600
gatggctatg tgtcaaggaa atgagagtgg ctattggcca acaatgagta aaacactgaa  201660
gctttcagtt tgacagccca ctaggaagta aattcagtca gcaaccaagt aagcctggaa  201720
gcctggatcc ttcctcagtt gtgccttcag atgagactgc agttctattg gccctttgct  201780
tgcagccttg taggaaacat tgaagtggag gacccagcca agcctggcct ggactcttga  201840
cccacagaaa atgtgagata taataataag tatttgttgt tctaagctgc tacattggtg  201900
ataatttgct acacagtaag agataatgta tacaggttct tttcatttct tttgctatta  201960
caaagagtgt ttctgtgggc caggcatggt ggctcacgcc tgtaatccca gcacttttgg  202020
aggccaaggc aggtggatca cttgaggtca ggagttcgag gccagcctag ccaacatggt  202080
gaaacctgtc tctaccaaaa atataaaaaa ttagccagat gtggtggcat gcacctgtaa  202140
tctcacatac ttgagaggct caggcaggag aatcgcttga actcaggagg tggaggttgc  202200
```

```
agtgagccga gatcgtgcaa ttgcactcca gcctggacga cagagcaaga ctccatttta  202260
aaaaaaacaa aaccaaacaa aaagagtgtt gctatgaacg ttgttgtaac atgtctccca  202320
gaacacagaa cacaagagcc taggtttccc ttgggtatgt gctgggtata tgcctaggaa  202380
tggaattgtt agatctcagg atgtttgttt tgttttgaga cagagtgtcc ttctgttgcc  202440
taggctggag tgcagtggtg cgatcttggc tcactgcaac ctctgcccca cagcttcaag  202500
caattctcct gcctcagctt cccaagtagc tgggactaca ggtgcccgcc accacgcctg  202560
gctaattgtt cgtatttttta atagagatgg gttttcacca ttggccaggc tggtcttgaa  202620
ctcctggcct caagtgaccc acctgccttg gcctcccaaa gtggtgggat tacaggcctg  202680
agccaccatg cccagctgga tctcaggatt tacaaatgtt ccacattact ggtagtcaga  202740
aaaccattaa agttagggtc atgccatggc tgtagtgtgt tggccagggt tgggagtaaa  202800
gcctggcctc aatccatgga agttgggatt gtctgtgggc agggttggag tcgtacagag  202860
ggccgagtta ggggtcagtc cttacgtagg gttgagggtg agtgtgtggc cacatttggg  202920
aacaatttga agtctggttt gggggttggt ttggacaagg ttggagaaca ctgtgagggt  202980
gggtttgggg gtcaatctaa ggccagggtt agaagttagg ctgtcatcct gtgcaaaacc  203040
tgacccctgg tgatatcatc aacctaccaa gctgtggccg cacaggaccc agccaccccac  203100
aagatgagat ccactctggg tccagaaagc tctttcactc aaggcgggag tgggagatg  203160
gaggacaagt gaagaagaaa ctggctcccc tcagatgcaa aaagagaagg caggcacagg  203220
aaatagaaca caacactgac tttaatgggg cagccctgag ccgtaacctt caaactttcc  203280
gcctcagtac cccgtgcgcg aggagggagg ggcgactgct acgggcacat cgtcgatgtc  203340
ctccctactc ctggcgatcc cacgcctcac cccttcctct ccagctgctg cggtctccgt  203400
cgccgaggtg ggtcccaggt aagctcccag gaggggcagg ggagcccctc agcggcccgg  203460
gacagattcc cccatggctg agggcatggg gaactagcct ggatggagac gccgccgtcc  203520
tcggagctgg gcggggacct gattctgggg gtgtggacag agccaaggga ccgcccccca  203580
aggcccagcg ccgggagatg caaggccggg cccaaggtgt tggacactgc tttgggggac  203640
aggctaggtc tctgcacgtg gcttctgggc tctggaaagc ggtccattct cctgacccgg  203700
atctccggag tggtaggagg cggctcagtc ccgggcctgc gctcctagag ttcctgtccc  203760
atctcctccc acgctcaccc atcccaagga aggagggcac tcgggcccca gcaggctcgt  203820
gagagcagcg ggctccgccc tcccaatggt ctatccatcg gtgggtgggt ccggcgcggc  203880
gtcggggctc tggcgggtac ccgggcgtcc ccgcgcggcc cgggccgccg ctcaccgctg  203940
cttacgctcc gcctgctgga gccgccggga gaggtcttcg atccgcacat tcttgagctg  204000
gagcaggtgc tccaggcgcc ttaccttcat ctgcaggacc taagccgcac cgcgcaggcg  204060
tcaagcctgg cggtctgctc cctcctgccc ggcctctgct ggccgcgagc ccccacccgc  204120
agccttcata gacccgtcac ttgcacggtc tcttgagagg ccaacagctc ctgctccttt  204180
tcagcgatct ggaggacgaa gctggggtcg ccctgcaacg cccggttata cgctggaggc  204240
cgaggcgccg gcggccggtc ccagctgggg tgggaagcag cttagcggag gcttggacct  204300
cgggccctac actcaccctt ccagggccct agaccaggcc ttccctctc cccctctagc  204360
ccctttcctg cctcccgtct caggctcagc gtaccgtgcc ccccaacccc agctgtgtgc  204420
agagatcacc agcctggtga agtctggaac tcccagcttc tttacctgag ctgacccct  204480
cccgggggt ccgggacacc ttcacctcgg gccttctggg atacacctga gacaaggcaa  204540
gtggaggaat gactgtgctg gagtctcatt ctcctgcttc ccctcccta cttccactct  204600
cacaagtgac aggaagaagg acagaaggaa agctccaacc gggagggaga aatggaaaag  204660
gccacctac ccacatccat gtagccactg ccatcctggg gagccagctc ctgaaagaac  204720
cccgggggtc cgctgtaagc ccgggctcag tcatccccaa ggagcccat gtccctcca  204780
cgggccccca ggccaggctc tattagccaa gcacccctcc cccacactta tcacccaggc  204840
tggcctttct gtggtctggg gagcgccccc cacccagccc ccagagcagt gggagaagct  204900
ggagcggggt ggcacctgta aggagccggc gccctgcttc ctgcgcctct gcctctcctc  204960
caggcgctgc ctcagcggga tgagcaccag ctccaccacg cctgggggcgc actgcgcgat  205020
cttgcgcatc acgtcatccg gtactgaaaa gttcagcctc ttcagtacct tcctgagggg  205080
tagacattgg gatagcagat tgggtcctgg ggaaatgaag cgaggggatg ggggagaggg  205140
aaggggcgat ggtggttgct gttctgagtg tacagccctg ggggagtgaa agcgcatcgc  205200
atctgagctt ccttgtgtgg gtgttccgag gttccttgcc tccttcctaa tagaagagtc  205260
tcttgatttt gtaatcggac gaatttctgtc tgcgttgacc ctccccacc tgccaccaaa  205320
acagtctcag cctgggcaac caagaccata ggagatgatg gggctgcaca ggtattctgc  205380
tacctgttca gatgacccca gttgctgagc ttctgctgga gagagttggc ggggacataa  205440
ttgtgcatct ccaccatctt ggggaagtaa aacttgatga cctctgcaac aaggactgag  205500
ggagaggga gcagacatgg aaagtggggg catgggtaag gaaggaggag gtgagagaag  205560
gtgggggtgg gagaatcagg catggcagag tggtggaacc caatggaggg gtggagatgc  205620
ggaaagggga aggataagga gggagacaaa gacattaaga ttagtgatag gtagaggaga  205680
```

```
ctaagtctcc agcatacctc agaggagctg catcccttcc ccactaattt aggaatggga  205740
atactgagtc tctggtcctc cagtagagaa tgagtcagcc agtgcagggg ctcacacctg  205800
taatcccaac actttgggag gctgaggcgg gtagatcacc tgaggccagg agttcgagac  205860
cagcctggcc aacatggtga aaccccatct ctactaaaaa tacaaaagtt agccaggtgt  205920
ggtggtgcat gtaaacccag ctacttgggt ggctgaggca gaagaatcgc ttgaactcag  205980
gaggtggagg ttgcagtgag ctgagatcat gccactgcac tccagcctgg gcgacaagag  206040
tgagactctg tctcaaaaaa aaaaaaaaaa aaaaaagaga atgagtctcc aagagaagct  206100
ttcaggagcc cagggaattc acatggatgc atgatgcaca cacacacaca cacacacaca  206160
cacacacaca ctccaacacc aaagttccag gagagtaaaa gactcacgta agcagagaca  206220
catgtgataa gatcccccta cacatagata catagggcag aatgtgtaga cacatagaac  206280
aaacacatgc tagacacaca taggcacaca tgtagaacac acatagacag aagcacaaaa  206340
agccacatat gcacacagcc tccccaaata tacagataca gagatgcata gaagtacttg  206400
acatgaaaag atgacagata agtatttctg tcattgagat cccaggagac attcctagaa  206460
acacaaacac cttcacaatc acaaagaaac acatgcacac aagacccccc caaatacaag  206520
actaaacatg tcaacacata tgaacacaca catgctcaga ctcccagaag acatagaaca  206580
catagcaatg agtgagcaca tacagaaatg cataaataca tatgcagaca catatcttaa  206640
tcattaatgt ccctggaggg agttagaggc acccccccca acatgcacac aggatagaac  206700
atgtagacat acatatatgg acacacatcg ttcacacaca gatgcaaata gaaaacaagc  206760
acacacatct aaaatttgaa gtcccaggag gcagattcct ccccactccc acaagcacac  206820
aaacacaaag agtttgcaca gagacccgtt acacacgaac atacaggaca gaacatgcag  206880
acacacaagg gcacacacct ccatcgctaa agtcccggga gaggtttcgc ttgggccggg  206940
acagagggat gttgtctacc cacaggtaca gctggtgcag cgcctcctcg tccacgctgc  207000
tcgccattgg cgtcctcacg gcctggccgc cccagcggtg ccgggtcccg ccccagcctc  207060
acgacccttc aggcgcttcc tttctcgcca ctgcagaagc ccataactgc ctctgcctgc  207120
ctaatccaga gactcacgtc ccagctggga gcggccatat tgtttttctga aaccatggaa  207180
accattcccg actctcctgg gtacaaagac ttctgggagt tgtagtttta tcccctcccc  207240
gctacctcct ctcaggcccg agctttgaaa aggcggttag ctgccctttgt cttcttccca  207300
agaaagcatc acttctgtgc ccacgccacc tagtgaccag ccactcatcc attttgggac  207360
cagccaaagc caaccaggac cccagaattc cgcggatcct tctatagtgt cacctaaatg  207420
tcgacggcca ggc                                                     207433
```

<210> 6
<211> 23574
<212> DNA
<213> Homo sapiens

<400> 6

```
gctggacctt caacagagaa ggatggctgg cagagtccta gtctgatagg cgccccctc 60
ctagtgcctc tggagcagga gcacagtgaa aacccagctg tgtcgctga taccctggg 120
aggagcttt gctgcagcaa ctccccgccc tcattaagtc tccaccccag gctgcaccgt 180
caggtaaacc tgggagccac gggattcggc gcctgaatgt gcctagacgg accccaacac 240
actagccctg ccacgcacac ccagcaacac acagacaacc acccagggag acctggtctc 300
tcccatgcta aactaggaac gctatgaaac agcatttttc ttttccttt ttatataatt 360
ctatttaaa cttaaaaaaa ttttttgaa tagagttggg gtctcgctct attgcgcagg 420
ctggtcttga actcctgggc tcaaaccatc ctcccacctc ggcctctcaa agtgctagga 480
tgacaggtgt gagccaccat gcctggccta ttttaaactt cttattgttg actaatttta 540
gacttgcaga aaagttggaa aatgtaagca ttttccttac acccttcacc cagcttcccc 600
tgatggtcca tcttacttaa tcatagtcca atcattacag ctaggaaact aaccttggta 660
caatcctgtt aacgaaactg tagactgttt tgcatttctc atttttccac taatgtcctt 720
tttctgttcc aagatccatt ctaggatccc acatcacagt tgtctcctta ttctcctcaa 780
tctgggagtt ccttcatctt tccttatctt taccctgac actttgaag aatcctggcc 840
agttattttg cagaatgttt ctcttgagtt gtctgatgtt ttattctgat cagaatgaga 900
cacagcattg ttttgactaa ccaaaaagtt attctataag taaatattga ggttaaaaat 960
ctcatccaac ctgggcaaca gagtaaggcc ctgtctcaaa taaagtctca acactaagat 1020
```

```
ttaaaaagtg accagaaaag cccccactat gatttgtctt gacttttttt taaaaaacaa 1080
acaaacaaac aaacaaacaa acaaaaacga tgtcttgctc tctctctccc tcaggctgga 1140
gtgcagtggc acgatcttgg ctcactgcaa cctccgcctc ccaggttcaa gcgattctct 1200
tgcctcagcc tcccaggtag ctgggattac agacgcccgc caccatgccc ggctaatttt 1260
tgtattttta gtagagacaa ggtttcacca tgttggccag gctggtctcg aacttctaac 1320
ctcaagtgac ccgcccacct ctgcctccca aagtgctgga attacagacg tgagcaactg 1380
cgcttggcct cattagcatc ttaaatctcc acacaggggt gtgttcctta ctgttataag 1440
gagcaaagga tcagtttgag gacaggtaaa ataaaaatgc gcttgctgcc tagagggaga 1500
agtccctgct gaagatagct ttgcttgaat gagctcaatt gcaatgccag tgctgaggct 1560
tgttgactgt acggtcacca cagttgctgc tgcgcgccta gaacatggtc actttcttga 1620
ctacctatcc tgtctcagta catctgtctg tggtttgtgg tggtccattt cctaattttt 1680
ttaatgaatc agaagactgt gatgtgcttt ccgctgtgct aaccatggcc gctgaagcaa 1740
aatgtaaacc aagatgcccc tgcagtggtt gtgcttcact ctacgacatc tgttaccgga 1800
aaggggtcca gattcagacc ccaggagagg gttcttggat ctcgtgcaag aaagaatttg 1860
agacgagtcc ataaagtgaa agcacattta ttaagaaagt aaaagaataa aagaatggct 1920
actccataga gagcgcagcc ctgagggctg ctggttgccc atttttatgg ttgtttctgg 1980
atgatctgct aaacaggggt ggattgttca tgtctcccct ttttagacca tatatggtaa 2040
cttcctgata ctgccatggc atctgtaacc tgtcatggtg ctggtgggag tgtagcagtg 2100
gggaccgacc agaggtcact ctcatcacca tcttggtttg ggtgggtttt agccagcttc 2160
tatattgcaa gctgattttt ttggttggtt tggtttttga gacggagtct cgctccaggc 2220
tggagtgcag tgacatgatc tcagctcact gcaacctcca cctcctgggt tcaagcgatt 2280
ctcctgcctc agcctcccaa gtagctggga ttacaggcac acaccaccat gcctggctag 2340
tttttgtatt tttagtagag atgaggtttc accttgttgg ccaggctggt ctcgaacttc 2400
tgacctcagg tgatccgccc acctcagcct cccaaagtgc tgggattaca ggcgtgagct 2460
accgcgcctg gcctactgca aactatttta tcagcaaggt ctttatgacc tgtatctcct 2520
atctcatcct gtgacgcaga atgctgtaac tgtctggaaa cgcagcccag taggtctcag 2580
ccttattttg ctcagcccct attcaggatg gagttgctct ggttcacagg cctctgacac 2640
atcctcttgt gttttggcgt gtgggaggaa agaggggtga gggaaggaaa ctcaaaacca 2700
agctctgacc acacagggca ggtacactct cccacctgtc tgtgggtgcc acaagtcaag 2760
ggaggggcag agagagaaga aggtgtgaca gatggccgca ggccacagaa tgtcagagga 2820
agcccagttc ctcccggggc agcccaagta gctggtagtt gggtggccaa acagagggcg 2880
tcacagctga gctgggctcg ctcgctaccc ccagctcagc gtccactctg ccacctcagta 2940
cctcctgctc agcctcaggg tccatgccta ccctcctgct tcccagtcac ttctgcgtgc 3000
ctcctgcttt tctgctgttg gccccatgcc agctccttgc tgctgagctt ctcttctcca 3060
gttctgcagc acagccaggt gatcctgggc tccagacagg cctctccccc agtctggggc 3120
ctcccctctt agagccctct ttccttccca cgtggcctcc ccaggattcg ccactgaatg 3180
gagaaggggt ggaggggtgtg ctgggcagtc ttggggatta gccaagaggg cagagttggc 3240
ctcccaggg tcccttgtag ctggagtccc gcgggtctca gacacccact ccttgaaggt 3300
aagagcgggg gaggtatatt aacgtgtatt tttagagtct ctcttttttt ttttttttt 3360
tttgagacgg agtcttgctc ttgttgccca ggctggagtg cagtggcacg atctcagctc 3420
actgcaacct ccacctccca tgttcaaaca attctcctgc cgcagcctcc cgagtagctg 3480
ggattatagg cacgtgccac cacaccgggc taatttttgt atttttagta gagatggggt 3540
ttcaccacat tggccaggct ggtctcgaac ttctgacctc aaatgatcct cccgccttgg 3600
cctcccaaag tgctgggatt acaggcgtga gccaccatgc ctggccttag attctctatt 3660
ttatgatggt ttaacatctc ggggtggggg cttgttggct ggagagaaac tgcttgattc 3720
ctggagatca gaaacaactc atgcctttca tatgcaaacc gaccagtctt gagtccatac 3780
accaaccacc cccttcaagg aactctcaca tacgaaacca gtatttcccc tgccctaaac 3840
cagctcaggg ccaggcacct acccagacaa ttagagccca accccacgcc ccaaacccca 3900
ccagaatgat tcaaaatgcc aatcctaccc tcttcccctg gcctgccttg cctcccagt 3960
ggaaacggca ctgtgggctg tggcctgtgc cttccactcg ctcctgattc tgtccctgga 4020
ccaaacctag tgcctcccca ctgtggccct gcatggtggg aaactgtgag taataactta 4080
tttcaacagc attggcctct gtgtcatcag tcaccttcat aaattaaaat tttgcaacta 4140
caactgaggc aggagggggc tttagagagc actctcacct ggccccttgg gcttgtggag 4200
tggagcccga ggtgaagttg cctccctgca ctcagttttg ggatggtttt gttatgcggc 4260
aacagctggc tgatataggc cactcagcag ctcttgcatg aagcaatggg agaatgtgaa 4320
cgcccaaggg aggcaggagt gacagagcaa agagggtgtt caaactaggc aacaccgtcc 4380
tgtgcccaga cacatgcctg gggctctggc tgccatctag gctcggcctg ccagccacca 4440
ccccgtcagc caccacccca ccaaccacca cccgccaac caccaccccg tgtggtcctc 4500
```

```
agggcacccc atgggttgaa tttacatata gaaaagacta accaaggtcc aagttaatat 4560
gtctttttaa aatttatttt agagacaggg tcttgctctg tcacccaggc tggagtgcag 4620
tggtgccacc atagctcact gcagtgttga actcaggctc aagtgatcct cctgcttcag 4680
cctcctgagc agctaggcct acaggtacac accaccacgc ccagctaatt ttaaaatttt 4740
tctgtagatg cggtgtcttg ctgtgttgcc caggctggtg tggacctgct ggcctctggt 4800
gatcctccta ccccggcttc ccaaagtgct gggattatag gcatgagcca ccacgcctat 4860
agccaacatg tctttctttt gacttctact ttggtatctt ttcttaaatg gttcctctg 4920
tccccccgac acacacagaa tgggggagag gctgtcagat tctgagctcc agaacctcag 4980
gtgtagcact gggattgggg gtgggggctc aggaaccacc taggggagaa gacagggtgg 5040
gaagaaacag gaaggaaggt ccccaaaatt atgtttgttt gcagaggcca gccaggctgc 5100
aggggagtgt ggactcagtc gaaccatagg gccccaggac cactagcttc tggccagcag 5160
tcatgccctc cacagagctg ggtccgtgga aattgcatgt aggagacaca ccagactccc 5220
aggacagagc ccttttggga tggccagcac tacccagcct ccactggtga gggaggtcag 5280
gggctgtgtg acctttgctt ctgggactga tggtttattg agctggagag tgtgcccagc 5340
agtgttctcc agccctcagg aacttctaat gtggctctgg gttcctggag tgggtgggtc 5400
gaagctccac tcggggaaga aacttccaag ctgcctgcag gtgctggagg tccggtgatt 5460
cactggctct gcccctgcag ttcaagttcc tggagtggct gtcagtggcc acctgtcttt 5520
aaatctgttc attttaggag ctacctctca ccagaggcag gatcttggca tctggacttg 5580
atctgctgag aatgaggagg atatgttgtc ccctaaggac tggggcccca ggctgcaagc 5640
tgtgtggcag agagcccatc ctcactcagt gaggaccagt gatccaggaa aagccacagc 5700
ttctccctcc ccagcccagg ggcttccagc atcctggtct ccatgataac caagaggtca 5760
taaactcatt tccataataa cctgagccca gaaacctgat taggggcag caaactgagg 5820
ggtgggagag gtgggagggt gggcgatgag agggggaggc tttgaatcca ggtccctgcc 5880
taccttgggg gtcaggcgag actgctggca gaggcttctc agggtggctg ctgggctcat 5940
gagagttctc agggtctggg agaaatggtg gagggtaaat gttgtgaata tggtcagcag 6000
gagaccctgg ggctggggag gggcataggg gactcaaggt gactgggtgc tgcccatctg 6060
gaaggaggca ggaggcatga gcccttccct tctcccttcc ctctccacct ccccctggtg 6120
cctcactcac ccaggggcca gggctgtcca gtggctgtgg ggcccaactc catgggggtga 6180
acgccgccca gggggtggtc cctgtgtggg ccatctttgg ggctgagcaa cgtgataaga 6240
gtccaggagg ttggcacagt gatcctgagt gggttattgc ctccccgcag catggtgtcc 6300
agcccaggga gttctgcgtt tactgagttt cttggggcac ccatctgctc caagtcaccc 6360
tctcagctcc cttcctgctc cctcttcagg ggagccttgg gatccaggct ccaagtgagc 6420
ctcatgccct cggctggcac ctcctctctc tagtcctaac atttcctcca ggctctgaca 6480
ccacccagca gcctggcact ctccagatgc tggcatcgct cagcttccaa agaaccttgg 6540
atgtccgccc cttcggcagc tatgtctgct ctccttgccc ctgggtgccc tgctgccctt 6600
gatgattcca agccatcttt gactgtcccc atcccatccc ccaaggcctt gtcatttcct 6660
gtgatgttcc ttcaaaacat tctcccctgc cctgagactc ccgcctgggg atgagaagca 6720
gccgccaccc tctgcagcgc cccctccgtg ctgacacgcc aggctctggc caccttgctc 6780
ctctgcccac agaccctcaa tcacaactcg ctttgtcagg gtcctcttag ctgccacccg 6840
gggcccaggt ggtgccctgc ccctgtctgt tatgccctct gcccccatct ctggcccaaa 6900
tcatgccatc tcccttggct tgccccggagc actcccaaga ccaggctatg tcagacatgg 6960
ccacagagtg cctgccctgc ctagggccct ggtgcagggt gagtcctagg acagccatgc 7020
ttagtattat gtgactcccc actccgccac cacccaggtc acagagaact gggttaaggc 7080
agggccctgg cacaggggca gccagcaccg cagctgacca gtggtatgga gtgaaaagat 7140
gtgctgggcc cagcatttgg gaacttcaag ggggtgacag aggtgatttg tgcagaggaa 7200
gtggcaaagg gccgaaaact ggtgagacag aggctggaca ggcctccggg ggcagcatgg 7260
tacagggact gcaatctgag ccagggaaaa acagggcgaa gtcaagggtg aggcagccag 7320
ctggtgggag aagcaggaga gtggacaaga ggagctgtac tgggaggtag agggccatgc 7380
cttgcggtgc tggtggtggg gcagggatcc acccctcgc ttgactggga ggccactgga 7440
acctcctgtt caaagctact tctttccatg gcctctgggg ctgctctctg caactggggg 7500
caaggctgag ggcctgcccc agctcccaca gccccagcag agctctgagg aggggaaccg 7560
caggagtagg ctcaggaagc aggcgctcgg agcctaccca ctgcacgcag ggtcccttct 7620
gcagccccag ctgcatcgct gcagatgggc tcctgggagt cggtagcaac accaggccag 7680
gccggcccct gggagcagag gcagcaggac gctgaggagc atggccagca ggaaggtgtc 7740
atggtctgcg gggattgggg gaaggggcgc tgagtcctga gcaggtgcac caccccagct 7800
cctgcccaca tgccccccac tggcatactt tcagcctgca cagggccact gtccatgctg 7860
ccaccaaagc ctggcttgtc acagaagggt ggagcccagc ctggagcaca gtggcagtta 7920
tggttgctat tgcaaacctg cagagaagag aagaggaggg tcacgtagga ttaggaaccc 7980
```

caaggtcacc cccactcctc gggctctcac cccgtggctg tggcaggcag tcaggcagcg 8040
ctgaagctcc tggaaggcat tcttcctgca gcgcctgctc tggcacacct acgggcagtg 8100
caccaggcag tgagggggac actggcctgc gggattcaaa cggcaaggag gggtcgggtg 8160
ggcagagctc accattctag gtccacactg ggtgcctggc tctaccaggc ccaggccaag 8220
caggtccagc tgggcactgg ggagtgccaa ggctccccga caagtcactt cctggccatc 8280
taggtgaacg gtagagtcca ctggcaccat gtgcggtgcg agcaggctgg gctttccacc 8340
ctggcactgc agcttcccac acagggcatc cctggggagg aagtagaggg gggtcaacag 8400
ctgcagtacc ccctttcccc aaacccactc catagcttct gctccctcca ctcagctcca 8460
ctccctacct ccctgcacag ggcaggaagt ggccctcgct gtcctggccg cagtttccat 8520
gagcatctcc cgcagagttc accacctgga aacaggcctc gggagctggg tgggagcctg 8580
aggaagcatg ggccaggctg ggggcagctc ggagaggggc tgcgctcagc gggcctcagt 8640
ttcccctgcc catctttccc acagtagaaa actggcccca ccagaggatg gggggcaggg 8700
tgcaagggtg ctcgtgtcct ctcaccaggc ccccagagct gctggcactg ctgctccagc 8760
gtgggacatg cgccatccca gcagtagcca ctgccctgg cacaggggtga gccgtccagt 8820
aggtaaacgt ctgggggaca gtgggaggag gtgcccgtgc aaaactcagg gaggtcacag 8880
tcacccatgg cctggcggca cagcgctcca gccggcttca gctgcgcagg tgacgggtgg 8940
tggggaaggc agagagaggc cacgtgcagt gagaggtcca tgccgagagc gcggctcgga 9000
gctgggggag ccaggcctac ccaagcccag cacccaacgg gggaacctga gggcaccaat 9060
taactaaggc caacaggccg gctcccaagc tccccgaaac cctcaccctg aaccttccat 9120
gccctcacca ggcagcgcac gcagcagtcc ccgtgggcgc actgggcccc cgggcgcagc 9180
gagcagttgt gagcaaagca gcagaggtcg cggcactcct gggaccagaa aggcaagaag 9240
ggcccaggtg agggcgcagc gccccagacc tgagcggaga gggcaagtgg gggccgggcg 9300
agccgactta acctggccag ggccgcagtc acactcctcg cccgcttcca cgaagccgtt 9360
cccgcagagc gccggcggca ccgggagtcc ggggtccggg gcattggaga ggcaagcgcc 9420
gccccccttg cggaagaagg cgcgcagctg gcggcggctg caggcgctga acacgcgcgg 9480
aaacgggtgc ctaccggcac ggggagggca ttgggcatgg agggacagtc ccccaacccc 9540
cgcgcttctc tgatccccac ccctgggctt ggctacagcc gccagacgcg cagagcccag 9600
agaggggaag taacccgcgc aaagtcacac aacaagcggg acaggggacg atgcggcccc 9660
aatagtgagc agcccgggac ccaaggtgga atcgcgaccc gacggtgctc ctcccggtgt 9720
aggagtaacc tcgccaggtt actcggaaaa taatcttcat accgttgaga atccacttcg 9780
cctgagcttc ttcccttaa gcctcataaa ccaccctgaa gcggacacta tgatcattat 9840
ccccattta cagaagagga aactgaggga cgaccaaaga aacgcagcgg aggaagtccc 9900
caggactagc cgccccgccg cagccccgac ccccacccg cgtaccccgt ggccgcagcc 9960
atgacgcagc ctccggactc ggccgcagcc tccacgcagc agccgtcggg gtcgtggctg 10020
aggccgaggc tgtggccgat ctcatgggcc atggtggctg cggcgccgat ggggagctcc 10080
gagtggtcct gggggccgt gggagggcgg tcactgcggc cgtagagcct cctgtctctc 10140
cctcgccccc gcccgcgggg ctcaccgtgc tcacgcctcc cgagctctcg gcgcggcaca 10200
tgccctcgac gggcgccagg cccactgtgg cgccctggaa ggcgcggccc ctgggggcgg 10260
agcgcggcgt gaccaggcgg ggcgggagg tgaggccgcc ccacccggga cccgcgtccg 10320
ggtcagaggc acccacgtga gcagctgcgc ggagtcgtgg ggccgctgcg cccacagccc 10380
ccggcgccac tgcaggaagg cccagagcgt ggcgttggcg tcctgcgtga cgcggctgcg 10440
gtcccgctcg gtccacacct ccaggccggt cagcgccacc tgaatgtcca gagtcctgag 10500
aagctgaggg cgaggcgggg ctgaagccgg gacaggggcgc ccatcgcgc cggtggtcct 10560
tcgtggggcg cccttcctct tccccaaacc ccaccagcac ctgcctgtcc tgccgccgcc 10620
acccccatca ccgctctctc cccgccgccc ccaacctggt ccacgtagtt ggcgacttcc 10680
aggagacgct gtttggtgtg gttcaagttt cggtgccgag tcaagaactg ggaaggcaga 10740
aatcccggtg gctttgagggg ctgagctggc cccatccctg accccgccaa cccctggggt 10800
ctctcctcac cagggtgtgg tctgccacaa tgtacagttc caggtacttc cgggtcctgc 10860
gcgcttctcg cctgccctgc ggaggtgcaa atggggaccc tgagtggaag ctgctgggct 10920
tgagccctga ccccaaccc cagctcccag aaggaagttt aacatgtttt ctggaacttg 10980
tttcttcaga cttcaataaa aatactggga ctcgaggcct gtgaattcct gtctcttctg 11040
atttggaggg ctatagatac agcattccca ctcccatccg atcgatgccc ctgaccctgc 11100
tctggggacc accaggaagg ctggtcatgc ccgctttgtt cccaggatcc ctgtggccac 11160
aggttccttt ccaggtgagc agctgctcca tccgaaagat ctcgtgggtt gagaagtcct 11220
tggagccccg gggtggccag ggacgcagat aatagctggc attcctgctg agggtgatca 11280
ggccactagg gtgcagaggg gtaggagcgg gtgtgaggga gctctttccc catcccaggc 11340
ccagcctcct ctcccagagc tcacctcatc ccagagcagg tgcagaggac tacccaggag 11400
tcggggaagc cccttactcg cccttggtag tggcaatgat cctagggagg aaggggccag 11460

ccccaaatct cagccagggc tggagcaaga ggggcaagag ggagggtgtg gtaggggctg 11520
gctccaaccg ccccttagga atgcaaggag gagtaggggt aggaatggtg ggggggtacc 11580
tctggcggtg catcccagag cccatggaag catctcaccg tgtggttggg ggccagcacc 11640
actggctgcc catctgggcc gtagtgggtt tctatgtatc ctggggccag cagcctgctg 11700
agagggggtg ttacagggaa cactgaattc agcttcctcc tgcctcctcc aggatgtctc 11760
ccagccttcc tccctaaatg ctaatggagc agctttatga gtgagacact cacagtgtgt 11820
cttagggaag ggacaggagc aatggtgact tgctcagatc agaaactctt ggggctagag 11880
gaaggagcct tggtgatggc ttagttgtgg gagatgtgaa tatgggaagc accagggagg 11940
acgccgggga ggagtgggaa taggggaaga gtttgtggtt cccaggggac ctgcagcagg 12000
cagcaggatc cacaggatcg ggaggggagg agtcaggaga cactgccgaa gaatgggact 12060
tggagttggg gaaatgcggt gacctccccc agttcccctg cctgctgccc tcctttgttg 12120
ggcatctggt cgaccctctt gcccccacct gccctagatc cttgaaatat tttcctcaga 12180
cttctagacc ccacatacct cccacctgtc cttcagtgat tgatgctcac cccctgcctc 12240
cagagaaaac agaatcgcca cctgcccacg ctgcttccac cctccctgcc ttctccacac 12300
ccactccggt aatgattcca tcttcaggct ccatctcaac aggatctttc ccacacggat 12360
ggatcaatca taagtcaatc tgtcttcttt aaagaaaatc cttaacccaa cctcaccttg 12420
gcctcattac ctccagacca cccgctaatg atggctgctt ccccctctcc aggcattcca 12480
ccacctgccc cagctctgcc ccctacccct gccccacaca cacccgccac cctaggaggt 12540
aggtgatgtg accaccccat tgaaagggta gggacgtcgg gaaaatatgg ttgggcacag 12600
tggaactaga gtttgttccc tgtccatccg actccacgag ggagaataaa atacgtgtca 12660
agtgctcaga acagcgcctg cggtcaagca ctcagtaggt gatatatact gataacataa 12720
tctgggtggt tttaagagcc tgcgctccag cccggacacc caccccaccc agcccaaggc 12780
accttcctga gcacaggtct gcctgtccct tccccagctc aaaatctttg gctctggatg 12840
gtccaggaca ctgagcacca aaatggcctt ctgtgatctg gccctcctgg gactctccaa 12900
attcattccc ccctgctccc ctccctgtag atggagacct tccaggcagg tcagacaaac 12960
tgctgccccc aagtgtagcc actgcatctt tttcttttct cttttctttc ttttttttct 13020
tctttttctt ttttttctct tttttgaga cggagtctca ctctttgccc aggccggagt 13080
ggtgcagtgg tgtgatcttg gctcaccaca acctctacct ccgggggttca agcgattctc 13140
ccgtctcagc cccctaagta gctgggatta caggcgccgc caccacgcct ggctaatttt 13200
ttgtattttt agtagagacg gggtttcacc atgttggcaa ggctggtctc aaactcctga 13260
cctcaggtga gccgcccgcc tcggcctccc aaagccaccg catcttggtc cctgccattc 13320
ccttagcctg gggtgccggc tcatcttttc cctctaggat ttctttagac tcagcatatc 13380
ttgcaaatgt ccactaggtg gtgctcactc atcgccagca ggagagctaac aagccgctcc 13440
tggggttggg agggcggagg tgccccacag cggggctgac agcctcagcg gtcctcttca 13500
gcctccaggg agccaaccac aggcctgcgt gactctccct gtcatctgca ccctctctgg 13560
ggtcctctgc ccatccagcc acccgcacag atctgtgtca gtccctgccc cccaacactg 13620
atccctcct ccagcccta cccagcctg gcactcactg gttcttctcc agctcaagca 13680
ggagctcctg gccttcagcc tccagggcca ccagccccat gtctggcttc gagacctggg 13740
caagaaagag tgtggagctg agatggtggc ctccaggcct cctgcctgcc agggagtagg 13800
tggcctgtgg agccggctgg ggaggaagtt cttggggaga acgtgggctg gggagtcagc 13860
aggaccccc acatactatg gagggcgtgg aggaggtgag aacatacaaa gatgttccca 13920
aactcaggat gtttgcagtc ctgacaacag ccacttggaa gggcgttggc acagcctgcc 13980
aggcacacca gcatcctccc tagagaccag aggtcccaga aaggtgcccc tccctggcc 14040
ccgccctctt ctttcatgcc cagaaggggc atcaaaagca ggggaagaca gaggggtgct 14100
gaggacatta tgggggcatc gggtagccat ggtcaggccc tcctcagagc ctctgctacc 14160
tgaggcttgg ttccaaatga gctgctgctc atttcctata gaattcaaat ttgactcctc 14220
cacttccaat tttggcaaac tgctccctct tccaaagttt tcctgggcct ccagcagccc 14280
ccgtccctcc ggctccgaca cctgcttcac tggacccacg aagtaaacat ggacgccatt 14340
ccagccaaga gagcacactg gctctcagct aggtgtcagg aggctggctt ggacggccag 14400
ccctctctcc ttccccacc ctcttggcgt ctcccaccct gtgggaacac cccacttccc 14460
ccttgtccac tcagcctggc tgggggccca gagttggagc cggcccagga gcttcctggg 14520
aggctgctgc gccttcggaa tgtttaaccc ccgactcctt ttctccaaaa atgcactggc 14580
ctggggccct gtccaagggt ctcagagtct ttggagggag ttcttccttc gcaagtgggg 14640
agcagatggt ccttgcctcc ctggccacag gccccacaag gcctccagca tgagctcatg 14700
aggctggaat gccacttgct ttattgggga aaggtctgca ccgggaaaaa ggccatactc 14760
gaggtccctg ttcctctgca gcccctgcta tctttactct tgccctcctg gtaccctgcc 14820
ccttgatata taccccctcat cttgaaatgt gagtgtttcc tgcctttgg aggggatacc 14880
tagcctctac tctttcttct gtaccatctt ggcaggcttc ctgggggcag gggcccaccg 14940

gtgggggaag cagagcccct ttggggctct cctcttggtc acagcccagg ccagacagac 15000
agggaggccc agaggcagag tgaccccagt gtgtgtccag ccttcccctc ctggggatgg 15060
ggagggcaat ctcaaagctc aggccagtgc cgtgcttgac cagtggaatg ggggccttat 15120
gggcctaggg gatcccagtg agggccctgg gttgggagct gctgggtctc tgggggcctc 15180
tcagccttca tggcaatgct cccctgcctt ccctcttgct ggatttggac agtaggggctg 15240
aaaattccaa acaaagaggg ctctctagga ggggcagggg tgtagccaat ggtttaaaat 15300
cgttcagacc ttagtgggtc tcaggctccc agcctaaaga gctgtgtgac catggacaat 15360
ttccccaagc tctctgggct tccgtttgcc cctctgtaaa atgagcatat caaggctact 15420
gccctcttag tttgcagcac agatattatg gcacaaacag atggggcatg gttattctgg 15480
aagcgtgtga agagcgggat tgggaagagg ctggggcaga gcgtcctgca gaagaagcac 15540
atggggtggt cttacatctg ggggacatca ggagagtgac cactgccccc cccataccag 15600
aagtggattc cacaggagcc agtgaggctg aaggttcagg ccttcgtggc agggccctga 15660
gagggacagc agtgtgtcca cagggtcaca tgttctggtc aactttgcaa aaggttttct 15720
ttttggtgct ttttttttct ttttttttct tagaggctcc tgaaaagctt caggacccac 15780
aaactctgga cccatttctg cctggtgggg gtgggggtgg cccagatcat ccagggaggg 15840
agggaaagag ggaggtgggg tggagaaagc tgaaatgact tccatgtgtg cgggctcacg 15900
agatccagat gtccaaaccc cagtgccttc ttctgcccac ttgagggggca ggggaggcag 15960
gggcctatag gagtagtgac ttggtggttc tggggacccc agcaaaacta gaagctgtaa 16020
tgtagggaga gacaaaaggg ctgggaggtt cagggcccct gtggagggcg gggagacatg 16080
gcactgaccg gctcctccag gctgacggtg cgccagggtt gtccatccag gacccagtgc 16140
ggggtgactg gctgcccagg gatatgtcct ggagtaaaga cagagcacag ggtgaggggg 16200
acctgaggaa cacagcggga tgggacaaag cagagggagg ggggtagagg acatccccag 16260
ggaggcactg gaggcctttt ggggcagact tcaccttcaa cacgcgtggg ctcagcctgg 16320
agaaggaggg acgcccgtgg gcatccttgg atctgaggag ctatcaagga ggaggaaaag 16380
agaaggctgg aaagggacag ctcagctggg gacacgggag tcccctgacc tttgtcgggg 16440
ggcaggcttg ggctcggcga tcacaaggaa gaggccaagg ccgccagtgc agaggggaag 16500
gaaagagcgc ggcagcctta gggatttttа gatgggcagc agatgccttt agggtgagag 16560
atgtacgaag agaggacact tgtgcccccc ccatcatctg agaaaaacaa cagccagatg 16620
ttgccttgcg aggtccacct tgcccagagc tccctcgggg actctgtcct ggtggcaggg 16680
ttttggtacc ctggcccaga aggcccctcc tcatcttctc aaggggaggg gacgcttccg 16740
gacggagcct tggtgctccc tggccgggtg tgcctaaggg ggctctagga ggaatcccag 16800
agccaagcat tactcagagg gcgcctggaa tgttcccctg gaatgctccc agcccctcca 16860
ctggccccaa ccactctcac aggcccgccc tgcaggagcc aggccccagg cacccagagc 16920
ctgcagcagc cctccttccc ccggtaccca gtcccagctc ccagaacaga cagcctcccc 16980
cctccacgca gccctggcct cagtcctgct gggctgatgg ctgcctgtgg aagtgactca 17040
gctcctgcta ggccacccca actcctttct tctcctccac cttctctccc agactacaaa 17100
catcaaagac ccttcctcca agaagccctc cttgattgga tgagtgaatt gccatcaggc 17160
agatgagggc cgagaggagt ctgccacctt ggaaaggagg ctagaggggc cagtgcagag 17220
agggctctga gtggatgtgg gggaggggaa ggaggggagg tctctcagcc cagagagcac 17280
ttaactgaga gtagagaacc aagctttgct gctcctaggc ctctaagggt ttggggaaga 17340
ggtagggtgg gcccgggcac aggtgtggtg tgggtgcagt gtggtgtgtg ggtgctgtcc 17400
acatggcctt gcgcgcacgt gctggccacg ggcaccctga ccccaatgag ggagagaggg 17460
gcagagctgg agctggagct ggagctccgg tgaccgggtg aatgggggtg gaacccgagg 17520
gagccaggct ggtattgggc acatagacgc ccctctccca ggggtcccat cacctccct 17580
gaccccagga tagggctcag aggggaggga gcagtggacc gcctgggcc ctccccctgg 17640
gccagaacag accaggcccc tgtacctgtt tggtccccac acagtgctgt ggaagccacc 17700
gcccagtctg catagcacag cccagccccg catgcccctc ccctggttgc cctccctgtt 17760
cccggccagg cacttgctgt gcaggactgg ctaatcctcc cacccgcttg cagaggttgt 17820
tccagcccca tcttaacatc tttgttggga ggggttaccc cgaggagaca gctgcagtct 17880
ttccagagca ctgctaaaca gacaccttct atctggagag gcccttctct atctcaccaa 17940
acaaggcaac aatataaaca acatacacac tgccctgctg ccctgggagg agggacgagg 18000
ggtgagcagg gtggagggca cagctagttc tgcagcctga gagcaaagca gggactctgg 18060
gggactcttg ggcatggggg cttcctagag gatggagccc cgctgagtcc taaggggtgg 18120
aggagcagga gcgggtcaca cggtggcctg cggatggaag ctggttgtga gagcgagaat 18180
ccaggcagag ggggctacgg ctatgggctg ggggctgggg gctgggctgt ccccgagggg 18240
gagggagcca tgccctctgc tttgccagcg gagtggcagc cgggcagtgt gggcaagtcc 18300
gggccccggg ccagcccaag cacacttgag cgtccctggg caggtcccac ggagaccccc 18360
ccaaagagtc cccacgccct gacctactgg ccgtatggtg ccggggccgt gagaccctcc 18420

gcgcgctgac ccgagctctg agcagaaccc atccccgcca ccaccaccgc gcctagcctg 18480
cccctcaggg cgcaccccgc ccgcgtcctc accttgaagc accccggcgc ctggcactgg 18540
ccagagcagc agcagtagta gcagcagcag caacgggggtc ccccgagctc tccgggggcct 18600
ccagcccata gctgtgagct cctcggcctc taggcagcgg ctcgcaactc cggctccgcc 18660
caggctggat tgcggccgac ccgtgcccgg tgcagcctca ggccgccgcc ttcggacctt 18720
ccccgccccca cctcccaccg cccgccctcg ctcccgcctc ccctccccgc caaccccgct 18780
cggagcctgg ccagggccc cgacggcgcg cgccatgggg gagccgggtc gccactcccg 18840
gaccgccgcc cctcgagggg gtggagctgg gcggaggagg gaatccgtgc ggccctcgg 18900
atgaccggcc cgagccgtcc ctccccgtcg gtctcagagg gcctctactc ctgagaggag 18960
gagagaaccg ctgggaaggt tcttggagga ccgcggcgtg gtgggatgag gcggtgggca 19020
aaggccgcct ctcgctgctg aagttggccc caggagcgcg atcttccgtg gtctcctggg 19080
gccgatctct gtcccctcct tgctacccgt cctgccccga gggtgccctg gcggaggttg 19140
agtcgggtca tccacctgca ctgggtgccc ccaaggatag gaaggttcag gcaaccggct 19200
gccgctgtct tgggggcttc attgctgggc aaaggcgatg cagcagacgg agacaacctt 19260
tcttccctgg cggtggccag agggcagaat tgcataaaag ctgcagactc ccaggcctgg 19320
gagacccttt cggcctcagt aacatctgtt tcatgttttа aacttttgtt ttcctactcg 19380
gtgcaaattt ggatgagatg ttaacttttt ttttttttt ttttttgaga tggagtctcc 19440
ctctgtcgcc aggctggagt gcagcggcgc gatcttggct cactgcaacc tccgactccc 19500
tggttcaagc gattctcctg cctcagcctc ccgagtagct gggactacag gcgcgcgcta 19560
ccacccccag ctaacttttg tatttttagc agagacgagg tttcaccatt ttggccagga 19620
tggtctcaat ctcctgatct cgtgatccac ccgcctcggc ctctcaaagc gctgggatta 19680
caggcatgag ccaccgcgcc cggccggaga tgttaacttt taagcaaatc ttttttttt 19740
ttttttttt tgagacagag tttctctctt gttacccaga ctggagtgca atggcatgat 19800
ctgggctcac tgcaacctct gcctcccaga ttcaagtgat tctttgcct cagcctcccg 19860
agtagctggc attacaggca ttcgccacca cgcctggcta attttgtatt tttagtagag 19920
atggggtttc tccatgttgg tcaggctggt ctcgaactcc cgacctcagg tgatctgccc 19980
gcctcggcct cccaaagcgc tggaattaca ggcgtgagac accgcaccca gcctactttt 20040
aagtaaatct atttgttttt gagaatttgg aatgtagtaa tttggttagt gaaagttcga 20100
gcagtgagag aaacctacat tcacatatct caaaatcaaa aagtacagaa agcatagggа 20160
aaagtctccg tgctcttagc cctcctcacc aacaggaaac caatatgatt agtttcttcc 20220
ataggctttt agattatttt ttcacactca agacaataca gacatatttt tttctcttat 20280
taacgttttt ctgcactttg attttctttt ttttttggt cgcttaatac acctagata 20340
tcagtgcgtt tagagggtcc ttgttgttct tatgattatt atttagagac agggtctcac 20400
tctgtcaccc acgctagagg acagtggcct gatcatgcct cattgcagcc ttgaaatcct 20460
gggctcaagg tatcctccca cctcagcctc ctgagtagct ggaactacag gcacacggca 20520
ccaggcccag ctaaaatttt taatttttct gtagacaggg ggtctcactt tgtttcccag 20580
gctggtctca aactcctggt cttggccagg cgcagtgtct catgcctgta atcccagcac 20640
tttgggaggc cgaggcgggc agatcactgg aggtcaggag ttcaagacca gtctggccaa 20700
catggtgaaa ccccatctct actaaaaata caaaaattag ccgggcatgg tggtgagcgc 20760
ctgtagttcc agctacttgg gaggctgagg caggaaaatc gcttgaactc agaaggtgga 20820
ggttgcagcg agccgagatc atgccattgc actccagcct gggcaacaag agcgaaactc 20880
cgtctcaaaa aataaaaata aaaataaaaa gaactcctga tcttaagtga tcctcctgcc 20940
tcagcttctc aaatcgctgg aattacagga gtgagtcacc acagctgtcc agctacgaga 21000
ttattactta ttattactac tttggatttt caaatcaact tcattaaggt ataatttaca 21060
cacaataaaa tgcacttatt ttaagtggcc agtaagatga gtttcgataa gtgtatataa 21120
ctacataagc atcactataa tgcagacaca ttccctcact cacagaaaga gccctgtgcc 21180
cttccagcca aacttcccca ctcccaaccc cagacagcca ctgatctgtt gttctctgtc 21240
tatagataag ttttgcctgt tctagaattt catataaatg gaatcatgcg gcatgcactc 21300
ttctgtgtct ggcttccttc cctctttccg atgtttttga gattcattta cactattttg 21360
catatcaata gtttgttcct tcgtattgct gaatagtgtt cggtggttg agggaaccac 21420
agtttctcta ctcaccagtg caccataggg ttatttttca gttaggggct cttataattg 21480
gaactatatt tgcacagaga gagagagagg aagaaagagg gagagagata tttattatag 21540
caattggctc acgtgattat ggaggccaaa aagttcccga atctgccatc tgcaagctgg 21600
agaacgagga aagccagtgg tgtgattcag tttgagttca aaggcctgag aaccaggagc 21660
accagtatgg aggtggctcg agctcagaac aagttgggga caggaaagca gagcagcacc 21720
ccagagcagc ccctcagcga cacctcttca gtaaagcaag gctgaacaca gaggggctgg 21780
cttcagtgtg gatgtcaggt acagaaggca gctcgaggag ctactctggc gttcttgctt 21840
actggtattc ttacctcgaa ctggccaact cctacttaaa ctgcaggcca tggctttaat 21900

gtcctgtcat tcagaggctg tcccttaccc aaagccaggt tagcatcccc tgactgacac 21960
ttctccctgc aacacgtttc agaaggccct gtagtcgtcc acttccctgt ctctctcccc 22020
aagctcctga gctccatgtg gtctgggaat atgtgtgttg ctcacttcct agcacagtca 22080
gtgctaataa ctgactgtag aggggacaca gtcgaaaagc cacatgggga tcagagtcat 22140
ccttacacag ttgacacctc ccaaacccag atgagctgtg tccaagtgca ggtcagagga 22200
attttctgcc gaagtctctg agaaagggtt tatttacatt ttgaggttgc aggggaggag 22260
atgaggccat caaaccaaag ctgaggaaga gggatcctag gatgcaccga gcagctccgg 22320
gggcgcctga cagcacctgg gaaagatggc ttctccactg gcttgttggc gtcaccctcc 22380
agaggggcat caggaaatgt cctgggaacc aggcaaacca gtgagcatta acccttagaa 22440
gtgcttggca tgggtgacac ccaccatctg taaacacgac ttctcccaag gagtgacgca 22500
gaacaggatg tctgagggag gcactccgac tccagccttc agagatcgcc agggtggcac 22560
ctggtgacga caggctgatg cttgggtgcc ccagaaaagg tcatgtgtgt gaatgggggc 22620
cccaaagcca acgcttcatc cctgacagcc tggtgcattt agaggggaac tttttgtccc 22680
ttggcaaggt gggtggaatt tcaggttcat agggcaaggg tattttagct ttaatagata 22740
ttgtcaaaca gttttccaaa gtcattgtac acactctgtg attctactta tgtaaagttt 22800
aaaaacaggc aaatcaaatc tatggtgttc gaagtcaaga cagtagttac ccttgtgggg 22860
gctgcaactg gtacagagtg taagggggga ctgtaggatg gtctatttct tgatctgggt 22920
gtgttcgctt ttggaaaagt ccttgagttg catttataat gtgtgaactt ttctgtatgt 22980
tacactttaa ttgaatgtac aaaaagtctc aggaggcctc agaccactgg aagcggacac 23040
aactaacccc tctgagagcc tccaatccaa gatggacata tgtccccttg gaagtatgca 23100
gaagcaggtg agaactccta agccggatat tcccaaatcc ccccagtagc cgcagcttca 23160
gcagctgctt atggtcctcc ctacaccctc tcttccccag acagccccca aacatctggc 23220
tgcatttgac ttgctctctc cctgtcccac ctctggattt agtccatgtt ctccaccctc 23280
cccactgtca gcaatgtaga caagacaaac gcttagttca cgtgcccacc tactgcgtgc 23340
catgcacggg gctggtcatt gtgggtggca aatgtgagca acacacgaag cctcaaggag 23400
cagaaaggga cacaaatcac ttcagcgtaa ggtaatttgt gataaatgtc atgtaacttg 23460
cagcccctgg ccccctccta cagatggtgt ctaagaataa accccactaa catgtgactc 23520
ctctgttcta gcccagctgt ttgggttgca agaaagagac tcactccagt tgcg 23574

<210> 7
<211> 65
<212> DNA
<213> Homo sapiens

<400> 7
agtctccgtg ctcttagccc tcctcaccaa caggaaacca atatgattag tttctttcat 60
aggct 65

<210> 8
<211> 656
<212> DNA
<213> Homo sapiens

<400> 8
gtgcagcctc aggccgccgc cttcggacct tcccgccccc acctcccacc gcccgccctc 60
gctcccgcct cccctccccg ccaaccccgc tcggagcctg gccaggggcc ccgacggcgc 120
gcgccatggg ggagccgggt cgccactccc ggaccgccgc ccctcgaggg ggtggagctg 180
ggcggaggag ggaatccgtg cggcccctcg gatgaccggc ccgagccgtc cctccccgtc 240
ggtctcagag ggcctctact cctgagagga ggagagaacc gctgggaagg ttcttggagg 300
accgcggcgt ggtgggatga ggcggtgggc aaaggccgcc tctcgctgct gaagttggcc 360
ccaggagcgc gatcttccgt ggtctcctgg ggccgatctc tgtcccctcc ttgctacccg 420
tcctgccccg agggtgccct ggcggaggtt gagtccgggtc atccacctgc actgggtgcc 480
cccaaggata ggaaggttca ggcaaccggc tgccgctgtc ttgggggctt cattgctggg 540
caaaggcgat gcagcagacg gagacaacct ttcttccctg gcggtggcca gagggcagaa 600
ttgcataaaa gctgcagact cccaggcctg ggagaccctt tcggcctcag taacat 656

<210> 9
<211> 177
<212> DNA
<213> Homo sapiens

<400> 9
cgggcacggg tcggccgcaa tccagcctgg gcggagccgg agttgcgagc cgctgcctag 60
aggccgagga gctcacagct atgggctgga ggccccggag agctcggggg accccgttgc 120
tgctgctgct actactgctg ctgctctggc cagtgccagg cgccgggggtg cttcaag 177

<210> 10
<211> 80
<212> DNA
<213> Homo sapiens

<400> 10
gacatatccc tgggcagcca gtcaccccgc actgggtcct ggatggacaa ccctggcgca 60
ccgtcagcct ggaggagccg 80

<210> 11
<211> 77
<212> DNA
<213> Homo sapiens

<400> 11
gtctcgaagc cagacatggg gctggtggcc ctggaggctg aaggccagga gctcctgctt 60
gagctggaga agaacca 77

<210> 12
<211> 79
<212> DNA
<213> Homo sapiens

<400> 12
caggctgctg gccccaggat acatagaaac ccactacggc ccagatgggc agccagtggt 60
gctggccccc aaccacacg 79

<210> 13
<211> 119
<212> DNA
<213> Homo sapiens

<400> 13
caggctgctg gccccaggat acatagaaac ccactacggc ccagatgggc agccagtggt 60
gctggccccc aaccacacgg tgagatgctt ccatgggctc tgggatgcac cgccagagg 119

<210> 14
<211> 77
<212> DNA
<213> Homo sapiens

<400> 14

gatcattgcc actaccaagg gcgagtaagg ggcttccccg actcctgggt agtcctctgc 60
acctgctctg ggatgag 77

<210> 15
<211> 190
<212> DNA
<213> Homo sapiens

<400> 15
tggcctgatc accctcagca ggaatgccag ctattatctg cgtccctggc caccccgggg 60
ctccaaggac ttctcaaccc acgagatctt tcggatggag cagctgctca cctggaaagg 120
aacctgtggc cacagggatc ctgggaacaa agcgggcatg accagccttc ctggtggtcc 180
ccagagcagg 190

<210> 16
<211> 66
<212> DNA
<213> Homo sapiens

<400> 16
ggcaggcgag aagcgcgcag gacccggaag tacctggaac tgtacattgt ggcagaccac 60
accctg 66

<210> 17
<211> 72
<212> DNA
<213> Homo sapiens

<400> 17
ttcttgactc ggcaccgaaa cttgaaccac accaaacagc gtctcctgga agtcgccaac 60
tacgtggacc ag 72

<210> 18
<211> 167
<212> DNA
<213> Homo sapiens

<400> 18
cttctcagga ctctggacat tcaggtggcg ctgaccggcc tggaggtgtg gaccgagcgg 60
gaccgcagcc gcgtcacgca ggacgccaac gccacgctct gggccttcct gcagtggcgc 120
cgggggctgt gggcgcagcg gccccacgac tccgcgcagc tgctcac 167

<210> 19
<211> 85
<212> DNA
<213> Homo sapiens

<400> 19
gggccgcgcc ttccagggcg ccacagtggg cctggcgccc gtcgagggca tgtgccgcgc 60
cgagagctcg ggaggcgtga gcacg 85

<210> 20

<211> 143
<212> DNA
<213> Homo sapiens

<400> 20
gaccactcgg agctccccat cggcgccgca gccaccatgg cccatgagat cggccacagc 60
ctcggcctca gccacgaccc cgacggctgc tgcgtggagg ctgcggccga gtccggaggc 120
tgcgtcatgg ctgcggccac cgg 143

<210> 21
<211> 178
<212> DNA
<213> Homo sapiens

<400> 21
gcacccgttt ccgcgcgtgt tcagcgcctg cagccgccgc cagctgcgcg ccttcttccg 60
caaggggggc ggcgcttgcc tctccaatgc cccggacccc ggactcccgg tgccgccggc 120
gctctgcggg aacggcttcg tggaagcggg cgaggagtgt gactgcggcc ctggccag 178

<210> 22
<211> 90
<212> DNA
<213> Homo sapiens

<400> 22
gagtgccgcg acctctgctg ctttgctcac aactgctcgc tgcgcccggg ggcccagtgc 60
gcccacgggg actgctgcgt gcgctgcctg 90

<210> 23
<211> 196
<212> DNA
<213> Homo sapiens

<400> 23
ctgaagccgg ctggagcgct gtgccgccag gccatgggtg actgtgacct ccctgagttt 60
tgcacgggca cctcctccca ctgtccccca gacgtttacc tactggacgg ctcaccctgt 120
gccaggggca gtggctactg ctgggatggc gcatgtccca cgctggagca gcagtgccag 180
cagctctggg ggcctg 196

<210> 24
<211> 107
<212> DNA
<213> Homo sapiens

<400> 24
gctcccaccc agctcccgag gcctgtttcc aggtggtgaa ctctgcggga gatgctcatg 60
gaaactgcgg ccaggacagc gagggccact tcctgccctg tgcaggg 107

<210> 25
<211> 199
<212> DNA
<213> Homo sapiens

<400> 25
ggatgccctg tgtgggaagc tgcagtgcca gggtggaaag cccagcctgc tcgcaccgca 60
catggtgcca gtggactcta ccgttcacct agatggccag gaagtgactt gtcggggagc 120
cttggcactc cccagtgccc agctggacct gcttggcctg ggcctggtag agccaggcac 180
ccagtgtgga cctagaatg 199

<210> 26
<211> 109
<212> DNA
<213> Homo sapiens

<400> 26
gtttgcaata gcaaccataa ctgccactgt gctccaggct gggctccacc cttctgtgac 60
aagccaggct ttggtggcag catggacagt ggccctgtgc aggctgaaa 109

<210> 27
<211> 148
<212> DNA
<213> Homo sapiens

<400> 27
accatgacac cttcctgctg gccatgctcc tcagcgtcct gctgcctctg ctcccagggg 60
ccggcctggc ctggtgttgc taccgactcc caggagccca tctgcagcga tgcagctggg 120
gctgcagaag ggaccctgcg tgcagtgg 148

<210> 28
<211> 92
<212> DNA
<213> Homo sapiens

<400> 28
ccccaaagat ggcccacaca gggaccaccc cctgggcggc gttcacccca tggagttggg 60
ccccacagcc actggacagc cctggcccct gg 92

<210> 29
<211> 72
<212> DNA
<213> Homo sapiens

<400> 29
accctgagaa ctctcatgag cccagcagcc accctgagaa gcctctgcca gcagtctcgc 60
ctgaccccca ag 72

<210> 30
<211> 1031
<212> DNA
<213> Homo sapiens

<400> 30
cagatcaagt ccagatgcca agatcctgcc tctggtgaga ggtagctcct aaaatgaaca 60
gatttaaaga caggtggcca ctgacagcca ctccaggaac ttgaactgca ggggcagagc 120
cagtgaatca ccggacctcc agcacctgca ggcagcttgg aagtttcttc cccgagtgga 180
gcttcgaccc acccactcca ggaacccaga gccacattag aagttcctga gggctggaga 240

```
acactgctgg gcacactctc cagctcaata aaccatcagt cccagaagca aaggtcacac 300
agcccctgac ctccctcacc agtggaggct gggtagtgct ggccatccca aaagggctct 360
gtcctgggag tctggtgtgt ctcctacatg caatttccac ggacccagct ctgtggaggg 420
catgactgct ggccagaagc tagtggtcct ggggccctat ggttcgactg agtccacact 480
cccctgcagc ctggctggcc tctgcaaaca aacataattt tggggacctt ccttcctgtt 540
tcttcccacc ctgtcttctc ccctaggtgg ttcctgagcc cccaccccca atcccagtgc 600
tacacctgag gttctggagc tcagaatctg acagcctctc ccccattctg tgtgtgtcgg 660
ggggacagag ggaaccattt aagaaaagat accaaagtag aagtcaaaag aaagacatgt 720
tggctatagg cgtggtggct catgcctata atcccagcac tttgggaagc cggggtagga 780
ggatcaccag aggccagcag gtccacacca gcctgggcaa cacagcaaga caccgcatct 840
acagaaaaat tttaaaatta gctgggcgtg gtggtgtgta cctgtaggcc tagctgctca 900
ggaggctgaa gcaggaggat cacttgagcc tgagttcaac actgcagtga gctatggtgg 960
caccactgca ctccagcctg ggtgacagag caagaccctg tctctaaaat aaattttaaa 1020
aagacataaa a                                                      1031
```

<210> 31
<211> 78
<212> DNA
<213> Homo sapiens

<400> 31
gtgtgccaga gcaggcgctg caggaagaat gccttccagg agcttcagcg ctgcctgact 60
gcctgccaca gccacggg   78

<210> 32
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: polyhistidine tag

<400> 32
His His His His His His
  1   5

<210> 33
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: FLAG epitope tag

<400> 33
Asp Tyr Lys Asp Asp Asp Asp Lys
  1   5

<210> 34
<211> 22
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 34
aactcttgaa atgagaagcg tg 22

<210> 35
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 35
aatatcatgc accatgaccc ac 22

<210> 36
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 36
tggagtaagt attgtaaact at 22

<210> 37
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 37
ggagcttatc ctggattatc ta 22

<210> 38
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 38
agagccacac atccatgtcc tg 22

<210> 39
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 39
aagccactct gtgaattgcc at 22

<210> 40
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 40
gagtagtcgt agtaccagat gg 22

<210> 41
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 41
gtctggcaat ggagcatgaa aa 22

<210> 42
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 42
attagagcac atgaaggaaa gg 22

<210> 43
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 43
acactgcttt gggggacagg ct 22

<210> 44
<211> 22

<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 44
cacgacgcca cagagccagc tc 22

<210> 45
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 45
aaccaccacg gattcacgct tc 22

<210> 46
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 46
ataaccagat ggctgtgggt ca 22

<210> 47
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 47
atccccgcaa tgaaatagtt ta 22

<210> 48
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 48
gttgagagcc cacttagata at 22

<210> 49
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 49
gcattggggg aagccaggac at 22

<210> 50
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 50
gccactagga ggcaatggca at 22

<210> 51
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 51
cgacggcatc acggccatct gg 22

<210> 52
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 52
tccaggctca ttcattttca tg 22

<210> 53
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 53
tgacatcaac ttctcctttc ct 22

<210> 54
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 54
agttgcagag acctagcctg tc 22

<210> 55
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 55
tctgggagag gacggagctg gc 22

<210> 56
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 56
tgtaggacta tattgctc 18

<210> 57
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 57
cgacatttag gtgacact 18

<210> 58
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: BstXI-linker
adapter

<400> 58
gtcttcacca cgggg 15

<210> 59
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: BstXI-linker adapter

<400> 59
gtggtgaaga c 11

<210> 60
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 60
Asp Pro Gln Ala Asp Gln Val Gln Met
1 5

<210> 61
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 61
Asp Pro Gln Asp Gln Val Gln Met
1 5

<210> 62
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<221> MOD_RES
<222> (1)..(11)
<223> "Xaa" represents a variable amino acid

<220>
<223> Description of Artificial Sequence: Zn-binding

consensus sequence

<400> 62
His Glu Xaa Xaa His Xaa Xaa Gly Xaa Xaa His
1 5 10

<210> 63
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 63
ctgcctagag gccgagga 18

<210> 64
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 64
caggagacca cggaagatcg 20

<210> 65
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 65
ttgcctgaac cttcctatcc 20

<210> 66
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 66
cccctgtgtt cctcaggtc 19

<210> 67
<211> 20
<212> DNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 67
gctccacact ctttcttgcc 20

<210> 68
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 68
aggcaggagg aagctgaat 19

<210> 69
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 69
cctaccacac cctccctctt 20

<210> 70
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 70
cctacccctc tgcacccta 19

<210> 71
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 71
aacttccttc tgggagctgg 20

<210> 72

<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 72
cacaccctgg tgaggagaga 20

<210> 73
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 73
ccacgaagga ccaccg 16

<210> 74
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 74
ctcacgtggg tgcctctg 18

<210> 75
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 75
ctctacggcc gcagtgac 18

<210> 76
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 76
gtccctccat gcccaatg 18

<210> 77
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 77
caggttaagt cggctcgc 18

<210> 78
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 78
ctctctctgc cttccccac 19

<210> 79
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 79
tctactgtgg ggaagatggg 20

<210> 80
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 80
cccctctact tcctcccca 19

<210> 81
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 81

gaccttgggg ttcctaatcc 20

<210> 82
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 82
gtgcacctgc tcaggactc 19

<210> 83
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 83
cctggactct tatcacgttg c 21

<210> 84
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 84
ttaccctcca ccatttctcc 20

<210> 85
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 85
gtggagaggg aagggagaag 20

<210> 86
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 86
ccccatgggt tgaatttaca 20

<210> 87
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 87
gcagctaggc ctacaggtac a 21

<210> 88
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 88
accacgccta tagccaacat 20

<210> 89
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 89
aggtgtagca ctgggattgg 20

<210> 90
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 90
ccccaggacc actagcttct 20

<210> 91
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 91
attgagctgg agagtgtgcc 20

<210> 92
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 92
ttcaagttcc tggagtggct 20

<210> 93
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 93
acaaggaccc tctaaacgca 20

<210> 94
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 94
acccttctgt gacaagccag 20

<210> 95
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 95
gtgttgctac cgactcccag 20

<210> 96
<211> 18
<212> DNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 96
cccaggtgca gagagcag 18

<210> 97
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 97
gctcctcttg tccactctcc t 21

<210> 98
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 98
gccacttcct ctgcacaaat 20

<210> 99
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 99
ttctctgtga cctgggtggt 20

<210> 100
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 100
atttgggcca gagatggg 18

<210> 101

<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 101
ggcagaggag caaggtgg 18

<210> 102
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 102
atggcttgga atcatcaagg 20

<210> 103
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 103
tagagagagg aggtgccagc 20

<210> 104
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 104
aaagatggcc cacacagg 18

<210> 105
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 105
agaactctca tgagcccagc 20

<210> 106
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 106
agctctgagc agaacccatc 20

<210> 107
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 107
ctcgaggggg tggagctg 18

<210> 108
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 108
gagaggagga gagaaccgct 20

<210> 109
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 109
agtgacttgg tggttctggg 20

<210> 110
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 110

tgtcatctgc accctctctg 20

<210> 111
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 111
aagagggagg gtgtggtagg 20

<210> 112
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 112
gtgatcaggc cactagggtg 20

<210> 113
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 113
atacagcatt cccactccca 20

<210> 114
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 114
gaaggcagaa atcccggt 18

<210> 115
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 115
caccagcacc tgcctgtc 18

<210> 116
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 116
gggtcagagg cacccac 17

<210> 117
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 117
gccgtagagc ctcctgtct 19

<210> 118
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 118
gacgaccaaa gaaacgcag 19

<210> 119
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 119
tgagcggaga gggcaagt 18

<210> 120
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 120
aaaccctcac cctgaacctt 20

<210> 121
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 121
aagggtgctc gtgtcctct 19

<210> 122
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 122
ccactcagct ccactcccta 20

<210> 123
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 123
ggattcaaac ggcaaggag 19

<210> 124
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 124
gctgagtcct gagcaggtg 19

<210> 125
<211> 19
<212> DNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 125
gaaccgcagg agtaggctc 19

<210> 126
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 126
atatggtcag caggagaccc 20

<210> 127
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 127
gcatcctggt ctccatgata a 21

<210> 128
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 128
gaggctttga atccaggtcc 20

<210> 129
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 129
cagcaagaca ccgcatctac 20

<210> 130

<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 130
gggacagagg gaaccattta 20

<210> 131
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 131
ttccttcctg tttcttccca 20

<210> 132
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 132
gtcctgggag tctggtgtgt 20

<210> 133
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 133
aggaacccag agccacacta 20

<210> 134
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 134
tgcctctggt gagaggtagc 20

<210> 135
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 135
ttcctggatc actggtcctc 20

<210> 136
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 136
ttcgagcagt gagagaaacc t 21

<210> 137
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 137
ctgggagtcg gtagcaaca 19

<210> 138
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 138
aggccactgg aacctcct 18

<210> 139
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 139

gcagcatggt acagggactg 20

<210> 140
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 140
cagctgacca gtggtatgga 20

<210> 141
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 141
tgtcagacat ggccacagag 20

<210> 142
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 142
agggtcctct tagctgccac 20

<210> 143
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 143
aggccttgtc atttcctgtg 20

<210> 144
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 144
caaagaacct tggatgtccg 20

<210> 145
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 145
ctcagctccc ttcctgctc 19

<210> 146
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 146
ctgtgtgggc catctttg 18

<210> 147
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 147
ggagaaatgg tggagggtaa 20

<210> 148
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 148
aaagccacag cttctccct 19

<210> 149
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 149
aggtttctgg gctcaggtta 20

<210> 150
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 150
gtaggtgtgc cagagcagg 19

<210> 151
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 151
tgtggaccta gaatggtgag c 21

<210> 152
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 152
caaagtcaca caacaagcgg 20

<210> 153
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 153
caggatcttg gcatctggac 20

<210> 154
<211> 20
<212> DNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 154
ctggcttgtc acagaagggt 20

<210> 155
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 155
ctggagcaca gtggcagtta 20

<210> 156
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 156
tttggtcgtc cctcagtttc 20

<210> 157
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 157
cctctcagga gtagaggccc 20

<210> 158
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 158
agcggttctc tcctcctctc 20

<210> 159

<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 159
cctctcagga gtagaggccc 20

<210> 160
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 160
atgttactga ggccgaaagg 20

<210> 161
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 161
ccctttccag ccttctcttt 20

<210> 162
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 162
caggactgca aacatcctga 20

<210> 163
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 163
tccctggtgc ttcccata 18

<210> 164
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 164
aggcaggagg aagctgaat 19

<210> 165
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 165
cctcttgccc ctcttgct 18

<210> 166
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 166
cctgaatgtc cagagtcctg a 21

<210> 167
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 167
ggcctcgagt cccagtattt 20

<210> 168
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 168

agagcctcct gtctctccct 20

<210> 169
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 169
tcgccctcag cttctcag 18

<210> 170
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 170
tcacgtgggt gcctctga 18

<210> 171
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 171
gggttacttc ccctctctgg 20

<210> 172
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 172
ctgggctttc caccctgg 18

<210> 173
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 173
ctgggctttc caccctgg 18

<210> 174
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 174
tccaggtggt gaactctgc 19

<210> 175
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 175
tagaatggtg agctctgccc 20

<210> 176
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 176
gaccttgggg ttcctaatcc 20

<210> 177
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 177
ccaagcacac ttgagcgtc 19

<210> 178
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 178
agccatgccc tctgcttt 18

<210> 179
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 179
cagcccaagc acacttga 18

<210> 180
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 180
cccatagctg tgagctcctc 20

<210> 181
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 181
aaagcttcag gacccacaaa 20

<210> 182
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 182
atcttggtcc ctgccattc 19

<210> 183
<211> 18
<212> DNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 183
gagggagctc tttcccca 18

<210> 184
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 184
ggaccaccag gaaggctg 18

<210> 185
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 185
aaccccagct cccagaag 18

<210> 186
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 186
ctgctcacct ggaaaggaac 20

<210> 187
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 187
actgcaggaa ggcccagag 19

<210> 188

<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 188
accgaaactt gaaccacacc 20

<210> 189
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 189
tgagggacga ccaaagaaac 20

<210> 190
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 190
caaagtcaca caacaagcgg 20

<210> 191
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 191
gaacctgagg gcaccaatta 20

<210> 192
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 192
ttggccttag ttaattggtg c 21

<210> 193
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 193
ttggccttag ttaattggtg c 21

<210> 194
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 194
ctggagcaca gtggcagtta 20

<210> 195
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 195
aggagtaggc tcaggaagca 20

<210> 196
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 196
tgtactggga ggtagagggc 20

<210> 197
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 197

agagggtgac ttggagcaga 20

<210> 198
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 198
aggcaataac ccactcagga 20

<210> 199
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 199
cccatgggtt gaatttacat a 21

<210> 200
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 200
gcctctggtg atcctcctac 20

<210> 201
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 201
actcagtcga accatagggc 20

<210> 202
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 202
tgtgtgacct ttgcttctgg 20

<210> 203
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 203
gcatgaagca atgggagaat 20

<210> 204
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 204
actcagtcga accatagggc 20

<210> 205
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 205
gcaggaaggt gtcatggtct 20

<210> 206
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 206
gcaggaaggt gtcatggtct 20

<210> 207
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 207
gggcattgga gaggcaag 18

<210> 208
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 208
tctgcctccc agattcaagt 20

<210> 209
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 209
agaatgcctt ccaggagctt 20

<210> 210
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 210
gtgttgctac cgactcccag 20

<210> 211
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 211
ctgcttcctg agcctactcc 20

<210> 212
<211> 19
<212> DNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 212
aacaggaggt tccagtggc 19

<210> 213
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 213
agcgagttgt gattgagggt 20

<210> 214
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 214
tgtgcaggct gaaagtatgc 20

<210> 215
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 215
gccacttcct ctgcacaaat 20

<210> 216
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 216
ctgagcccag aaaccctgatt 20

<210> 217

<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 217
gtgagtgagg caccaggg 18

<210> 218
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 218
cctagatggc caggaagtga 20

<210> 219
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 219
ccagaaacct gattaggggg 20

<210> 220
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 220
tacctctcac cagaggcagg 20

<210> 221
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 221
gccagaagct agtggtcctg 20

<210> 222
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 222
gcaggcagct tggaagttt 19

<210> 223
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 223
ttatcatgga gaccaggatg c 21

<210> 224
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 224
gacctggatt caaagcctcc 20

<210> 225
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 225
atgttggcta taggcgtggt 20

<210> 226
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 226

ttatcatgga gaccaggatg c 21

<210> 227
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 227
ctgagtggag ggagcagaag 20

<210> 228
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 228
ctgagtggag ggagcagaag 20

<210> 229
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 229
ccatgagatc ggccacag 18

<210> 230
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 230
atttcaaggc tgcaatgagg 20

<210> 231
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 231
acttctttcc atggcctctg 20

<210> 232
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 232
accacccagg tcacagagaa 20

<210> 233
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 233
tcccaagacc aggctatgtc 20

<210> 234
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 234
ctggggatga gaagcagc 18

<210> 235
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 235
cttctccctt ccctctccac 20

<210> 236
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 236
atttgtgcag aggaagtggc 20

<210> 237
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 237
catttcctcc aggctctgac 20

<210> 238
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 238
tcagagcctg gaggaaatgt 20

<210> 239
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 239
gttcctggag tgggtgggt 19

<210> 240
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 240
ctgggagtcg gtagcaaca 19

<210> 241
<211> 41
<212> DNA

<213> Homo sapiens

<400> 241
gccctctgag accgacgggg agggacggct cgggccggtc a 41

<210> 242
<211> 41
<212> DNA
<213> Homo sapiens

<400> 242
caagaacctt cccagcggtt ctctcctcct ctcaggagta g 41

<210> 243
<211> 41
<212> DNA
<213> Homo sapiens

<400> 243
caccatctca gctccacact ctttcttgcc caggtctcga a 41

<210> 244
<211> 41
<212> DNA
<213> Homo sapiens

<400> 244
ccaccatctc agctccacac tctttcttgc ccaggtctcg a 41

<210> 245
<211> 41
<212> DNA
<213> Homo sapiens

<400> 245
acaactaagc catcaccaag gctccttcct ctagccccaa g 41

<210> 246
<211> 41
<212> DNA
<213> Homo sapiens

<400> 246
tggtgcttcc catattcaca tctcccacaa ctaagccatc a 41

<210> 247
<211> 41
<212> DNA
<213> Homo sapiens

<400> 247
caggatacat agaaacccac tacggcccag atgggcagcc a 41

<210> 248
<211> 41
<212> DNA
<213> Homo sapiens

<400> 248
ccctccaaat cagaagagac aggaattcac aggcctcgag t 41

<210> 249
<211> 41
<212> DNA
<213> Homo sapiens

<400> 249
agctgctcac ctggaaagga acctgtggcc acagggatcc t 41

<210> 250
<211> 41
<212> DNA
<213> Homo sapiens

<400> 250
acttccttct gggagctggg gttgggggtc agggctcaag c 41

<210> 251
<211> 41
<212> DNA
<213> Homo sapiens

<400> 251
ttcctgcagt ggcgccgggg gctgtgggcg cagcggcccc a 41

<210> 252
<211> 41
<212> DNA
<213> Homo sapiens

<400> 252
ggttcagggt gagggtttcg gggagcttgg gagccggcct g 41

<210> 253
<211> 41
<212> DNA
<213> Homo sapiens

<400> 253
cagagaagcg cgggggttgg gggactgtcc ctccatgccc a 41

<210> 254
<211> 41

<212> DNA
<213> Homo sapiens

<400> 254
cccctctctg ggctctgcgc gtctggcggc tgtagccaag c 41

<210> 255
<211> 41
<212> DNA
<213> Homo sapiens

<400> 255
cagccgccgc cagctgcgcg ccttcttccg caaggggggc g 41

<210> 256
<211> 41
<212> DNA
<213> Homo sapiens

<400> 256
agtggcctcc cagtcaagcg agggggtgga tccctgcccc a 41

<210> 257
<211> 41
<212> DNA
<213> Homo sapiens

<400> 257
tgctggccat gctcctcagc gtcctgctgc ctctgctccc a 41

<210> 258
<211> 41
<212> DNA
<213> Homo sapiens

<400> 258
ctgctgcctc tgctcccagg ggccggcctg gcctggtgtt g 41

<210> 259
<211> 41
<212> DNA
<213> Homo sapiens

<400> 259
gaagtagctt tgaacaggag gttccagtgg cctcccagtc a 41

<210> 260
<211> 41
<212> DNA
<213> Homo sapiens

<400> 260

gcctctgtct caccagtttt cggccctttg ccacttcctc t 41

<210> 261
<211> 41
<212> DNA
<213> Homo sapiens

<400> 261
acaaatcacc tctgtcaccc ccttgaagtt cccaaatgct g 41

<210> 262
<211> 41
<212> DNA
<213> Homo sapiens

<400> 262
tccataccac tggtcagctg cggtgctggc tgcccctgtg c 41

<210> 263
<211> 41
<212> DNA
<213> Homo sapiens

<400> 263
ggtgctggct gcccctgtgc cagggccctg ccttaaccca g 41

<210> 264
<211> 41
<212> DNA
<213> Homo sapiens

<400> 264
ggaaatgaca aggccttggg ggatgggatg gggacagtca a 41

<210> 265
<211> 41
<212> DNA
<213> Homo sapiens

<400> 265
agggctcatg cctcctgcct ccttccagat gggcagcacc c 41

<210> 266
<211> 41
<212> DNA
<213> Homo sapiens

<400> 266
gcccctcccc agccccaggg tctcctgctg accatattca c 41

<210> 267

<211> 41
<212> DNA
<213> Homo sapiens

<400> 267
cctgggcggc gttcacccca tggagttggg ccccacagcc a 41

<210> 268
<211> 41
<212> DNA
<213> Homo sapiens

<400> 268
gccccacagc cactggacag ccctggcccc tgggtgagtg a 41

<210> 269
<211> 41
<212> DNA
<213> Homo sapiens

<400> 269
gccctggccc ctgggtgagt gaggcaccag ggggaggtgg a 41

<210> 270
<211> 41
<212> DNA
<213> Homo sapiens

<400> 270
tgcagcctgg ggccccagtc cttaggggac aacatatcct c 41

<210> 271
<211> 41
<212> DNA
<213> Homo sapiens

<400> 271
cactgagtga ggatgggctc tctgccacac agcttgcagc c 41

<210> 272
<211> 41
<212> DNA
<213> Homo sapiens

<400> 272
ctggtcctca ctgagtgagg atgggctctc tgccacacag c 41

<210> 273
<211> 41
<212> DNA
<213> Homo sapiens

<400> 273
atgacctctt ggttatcatg gagaccagga tgctggaagc c 41

<210> 274
<211> 41
<212> DNA
<213> Homo sapiens

<400> 274
agcaagacac cgcatctaca gaaaaatttt aaaattagct g 41

<210> 275
<211> 41
<212> DNA
<213> Homo sapiens

<400> 275
ggaggatcac cagaggccag caggtccaca ccagcctggg c 41

<210> 276
<211> 41
<212> DNA
<213> Homo sapiens

<400> 276
atcccagcac tttgggaagc cggggtagga ggatcaccag a 41

<210> 277
<211> 41
<212> DNA
<213> Homo sapiens

<400> 277
agcctggctg gcctctgcaa acaaacataa ttttggggac c 41

<210> 278
<211> 41
<212> DNA
<213> Homo sapiens

<400> 278
actgagtcca cactcccctg cagcctggct ggcctctgca a 41

<210> 279
<211> 41
<212> DNA
<213> Homo sapiens

<400> 279
tccaggaacc cagagccaca ttagaagttc ctgagggctg g 41

<210> 280
<211> 41
<212> DNA
<213> Homo sapiens

<400> 280
ttcttccccg agtggagctt cgacccaccc actccaggaa c 41

<210> 281
<211> 41
<212> DNA
<213> Homo sapiens

<400> 281
tcctcattct cagcagatca agtccagatg ccaagatcct g 41

<210> 282
<211> 41
<212> DNA
<213> Homo sapiens

<400> 282
ctgaggacca cacggggtgg tggttggcgg ggtggtggtt g 41

<210> 283
<211> 41
<212> DNA
<213> Homo sapiens

<400> 283
ggctggcagg ccgagcctag atggcagcca gagccccagg c 41

<210> 284
<211> 41
<212> DNA
<213> Homo sapiens

<400> 284
ctttgctctg tcactcctgc ctcccttggg cgttcacatt c 41

<210> 285
<211> 41
<212> DNA
<213> Homo sapiens

<400> 285
gtgagctctg cccacccgac ccctccttgc cgtttgaatc c 41

<210> 286
<211> 41
<212> DNA
<213> Homo sapiens

<400> 286
tggcgaggtt actcctacac cgggaggagc accgtcgggt c 41

<210> 287
<211> 41
<212> DNA
<213> Homo sapiens

<400> 287
ggctgctcac tattggggcc gcatcgtccc ctgtcccgct t 41

<210> 288
<211> 41
<212> DNA
<213> Homo sapiens

<400> 288
gccgcatcgt cccctgtccc gcttgttgtg tgactttgcg c 41

<210> 289
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 289
gccgtcccac cccgtcg 17

<210> 290
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 290
cctcctctct tggcgac 17

<210> 291
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 291
tccacactct ttcttgcc 18

<210> 292
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 292
gctccacact ctttcttgcc 20

<210> 293
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 293
tcaccaaggc tccttcct 18

<210> 294
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 294
cagaagagac aggaattcac a 21

<210> 295
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 295
tggaaaggaa cctgtggcc 19

<210> 296
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 296

gggtttcggg gagcttg 17

<210> 297
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 297
gggttggggg actgtc 16

<210> 298
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 298
ctctgcgcgt ctggcg 16

<210> 299
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 299
gccgtccctc cccgtcg 17

<210> 300
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 300
tcctcctcta ttggcgaccc 20

<210> 301
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 301
ctccacactt tttcttgccc a 21

<210> 302
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 302
gctccacact ctttcttgc 19

<210> 303
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 303
tcaccaagcc tccttcct 18

<210> 304
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 304
agaagagacg ggaattcac 19

<210> 305
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 305
tggaaaggag cctgtgg 17

<210> 306
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 306
agggtttcgt ggagcttgg 19

<210> 307
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 307
ggggttggag gactgtcc 18

<210> 308
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 308
gctctgcgca tctggcgg 18

<210> 309
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 309
agtcaagcga gggggtgg 18

<210> 310
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 310
cctcagcgtc ctgctg 16

<210> 311
<211> 18
<212> DNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 311
aacaggaggt tccagtgg 18

<210> 312
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 312
accagttttc ggcccttt 18

<210> 313
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 313
ctgtcacccc cttgaagt 18

<210> 314
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 314
tcagctgcgg tgctgg 16

<210> 315
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 315
gccttggggg atgga 15

<210> 316

<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 316
tcctgcctcc ttccag 16

<210> 317
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 317
actggacagc cctggc 16

<210> 318
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 318
ctgtgtggca gagagccca 19

<210> 319
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 319
aattatgttt gtttgcagag gc 22

<210> 320
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 320
gaacttctag tgtggctct 19

<210> 321
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 321
ccaagggagg caggagt 17

<210> 322
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 322
agtcaagcgt gggggtgg 18

<210> 323
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 323
ctcctcagca tcctgctgc 19

<210> 324
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 324
gaacaggagt ttccagtggc 20

<210> 325
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 325

caccagtttt tggccctttg 20

<210> 326
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 326
ctgtcaccca cttgaagttc 20

<210> 327
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 327
ggtcagctgt ggtgctgg 18

<210> 328
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 328
aggccttggg agatgggat 19

<210> 329
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 329
tcctgccttc ttccag 16

<210> 330
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 330
actggacagt cctggc 16

<210> 331
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 331
tgtggcaggg agccca 16

<210> 332
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 332
attatgtttg cttgcagagg 20

<210> 333
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 333
ggaacttcta atgtggctct g 21

<210> 334
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 334
cccaagggaa gcaggagtga 20

<210> 335
<211> 55
<212> PRT
<213> Homo sapiens

<400> 335
Cys Cys Phe Ala His Asn Cys Ser Leu Arg Pro Gly Ala Gln Cys Ala
1 5 10 15

His Gly Asp Cys Cys Val Arg Cys Leu Leu Lys Pro Ala Gly Ala Leu
20 25 30

Cys Arg Gln Ala Met Gly Asp Cys Asp Leu Pro Glu Phe Cys Thr Gly
35 40 45

Thr Ser Ser His Cys Pro Pro
50 55

<210> 336
<211> 11
<212> PRT
<213> Homo sapiens

<400> 336
Thr Met Ala His Glu Ile Gly His Ser Leu Gly
1 5 10

<210> 337
<211> 86
<212> PRT
<213> Homo sapiens

<400> 337
Met Gly Trp Arg Pro Arg Arg Ala Arg Gly Thr Pro Leu Leu Leu Leu
1 5 10 15

Leu Leu Leu Leu Leu Leu Trp Pro Val Pro Gly Ala Gly Val Leu Gln
20 25 30

Gly His Ile Pro Gly Gln Pro Val Thr Pro His Trp Val Leu Asp Gly
35 40 45

Gln Pro Trp Arg Thr Val Ser Leu Glu Glu Pro Val Ser Lys Pro Asp
50 55 60

Met Gly Leu Val Ala Leu Glu Ala Glu Gly Gln Glu Leu Leu Leu Glu
65 70 75 80

Leu Glu Lys Asn His Arg
85

<210> 338
<211> 48
<212> PRT
<213> Homo sapiens

<400> 338
Met Gly Trp Arg Pro Arg Arg Ala Arg Gly Thr Pro Leu Leu Leu Leu
1 5 10 15

```
Leu Leu Leu Leu Leu Leu Trp Pro Val Pro Gly Ala Gly Val Leu Gln
            20                  25                  30

Gly His Ile Pro Gly Gln Pro Val Thr Pro His Trp Val Leu Asp Gly
        35                  40                  45


<210> 339
<211> 178
<212> PRT
<213> Homo sapiens

<400> 339
Met Gly Trp Arg Pro Arg Arg Ala Arg Gly Thr Pro Leu Leu Leu Leu
  1               5                  10                  15

Leu Leu Leu Leu Leu Leu Trp Pro Val Pro Gly Ala Gly Val Leu Gln
            20                  25                  30

Gly His Ile Pro Gly Gln Pro Val Thr Pro His Trp Val Leu Asp Gly
        35                  40                  45

Gln Pro Trp Arg Thr Val Ser Leu Glu Glu Pro Val Ser Lys Pro Asp
    50                  55                  60

Met Gly Leu Val Ala Leu Glu Ala Glu Gly Gln Glu Leu Leu Leu Glu
65                  70                  75                  80

Leu Glu Lys Asn His Arg Leu Leu Ala Pro Gly Tyr Ile Glu Thr His
                85                  90                  95

Tyr Gly Pro Asp Gly Gln Pro Val Val Leu Ala Pro Asn His Thr Val
            100                 105                 110

Arg Cys Phe His Gly Leu Trp Asp Ala Pro Pro Glu Asp His Cys His
        115                 120                 125

Tyr Gln Gly Arg Val Arg Gly Phe Pro Asp Ser Trp Val Val Leu Cys
    130                 135                 140

Thr Cys Ser Gly Met Ser Gly Leu Ile Thr Leu Ser Arg Asn Ala Ser
145                 150                 155                 160

Tyr Tyr Leu Arg Pro Trp Pro Pro Arg Gly Ser Lys Asp Phe Ser Thr
                165                 170                 175

His Glu


<210> 340
<211> 113
<212> PRT
<213> Homo sapiens

<400> 340
Met Gly Trp Arg Pro Arg Arg Ala Arg Gly Thr Pro Leu Leu Leu Leu
  1               5                  10                  15
```

```
Leu Leu Leu Leu Leu Leu Trp Pro Val Pro Gly Ala Gly Val Leu Gln
                20                  25                  30

Gly His Ile Pro Gly Gln Pro Val Thr Pro His Trp Val Leu Asp Gly
            35                  40                  45

Gln Pro Trp Arg Thr Val Ser Leu Glu Glu Pro Val Ser Lys Pro Asp
        50                  55                  60

Met Gly Leu Val Ala Leu Glu Ala Glu Gly Gln Glu Leu Leu Leu Glu
 65                  70                  75                  80

Leu Glu Lys Asn His Gly Leu Ile Thr Leu Ser Arg Asn Ala Ser Tyr
                85                  90                  95

Tyr Leu Arg Pro Trp Pro Pro Arg Gly Ser Lys Asp Phe Ser Thr His
            100                 105                 110

Glu
```


<210> 341
<211> 165
<212> PRT
<213> Homo sapiens

<400> 341

```
Met Gly Trp Arg Pro Arg Arg Ala Arg Gly Thr Pro Leu Leu Leu Leu
  1               5                  10                  15

Leu Leu Leu Leu Leu Leu Trp Pro Val Pro Gly Ala Gly Val Leu Gln
            20                  25                  30

Gly His Ile Pro Gly Gln Pro Val Thr Pro His Trp Val Leu Asp Gly
        35                  40                  45

Gln Pro Trp Arg Thr Val Ser Leu Glu Glu Pro Val Ser Lys Pro Asp
    50                  55                  60

Met Gly Leu Val Ala Leu Glu Ala Glu Gly Gln Glu Leu Leu Leu Glu
65                  70                  75                  80

Leu Glu Lys Asn His Arg Leu Leu Ala Pro Gly Tyr Ile Glu Thr His
                85                  90                  95

Tyr Gly Pro Asp Gly Gln Pro Val Val Leu Ala Pro Asn His Thr Asp
            100                 105                 110

His Cys His Tyr Gln Gly Arg Val Arg Gly Phe Pro Asp Ser Trp Val
        115                 120                 125

Val Leu Cys Thr Cys Ser Gly Met Ser Gly Leu Ile Thr Leu Ser Arg
    130                 135                 140

Asn Ala Ser Tyr Tyr Leu Arg Pro Trp Pro Pro Arg Gly Ser Lys Asp
145                 150                 155                 160
```

```
Phe Ser Thr His Glu
                165


<210> 342
<211> 168
<212> PRT
<213> Homo sapiens

<400> 342
Leu Ala Pro Gly Tyr Ile Glu Thr His Tyr Gly Pro Asp Gly Gln Pro
  1               5                  10                  15

Val Val Leu Ala Pro Asn His Thr Asp His Cys His Tyr Gln Gly Arg
            20                  25                  30

Val Arg Gly Phe Pro Asp Ser Trp Val Val Leu Cys Thr Cys Ser Gly
        35                  40                  45

Met Ser Gly Leu Ile Thr Leu Ser Arg Asn Ala Ser Tyr Tyr Leu Arg
     50                  55                  60

Pro Trp Pro Pro Arg Gly Ser Lys Asp Phe Ser Thr His Glu Ile Phe
 65                  70                  75                  80

Arg Met Glu Gln Leu Leu Thr Trp Lys Gly Thr Cys Gly His Arg Asp
                85                  90                  95

Pro Gly Asn Lys Ala Gly Met Thr Ser Leu Pro Gly Gly Pro Gln Ser
            100                 105                 110

Arg Gly Arg Arg Lys Ala Arg Arg Thr Arg Lys Tyr Leu Glu Leu Tyr
        115                 120                 125

Ile Val Ala Asp His Thr Leu Phe Leu Thr Arg His Arg Asn Leu Asn
    130                 135                 140

His Thr Lys Gln Arg Leu Leu Glu Val Ala Asn Tyr Val Asp Gln Leu
145                 150                 155                 160

Leu Arg Thr Leu Asp Ile Gln Val
                165


<210> 343
<211> 167
<212> PRT
<213> Homo sapiens

<400> 343
Ser Gly Tyr Cys Trp Asp Gly Ala Cys Pro Thr Leu Glu Gln Gln Cys
  1               5                  10                  15

Gln Gln Leu Trp Gly Pro Gly Ser His Pro Ala Pro Glu Ala Cys Phe
            20                  25                  30

Gln Val Val Asn Ser Ala Gly Asp Ala His Gly Asn Cys Gly Gln Asp
        35                  40                  45
```

```
Ser Glu Gly His Phe Leu Pro Cys Ala Gly Arg Asp Ala Leu Cys Gly
     50                  55                  60

Lys Leu Gln Cys Gln Gly Gly Lys Pro Ser Leu Leu Ala Pro His Met
 65                  70                  75                  80

Val Pro Val Asp Ser Thr Val His Leu Asp Gly Gln Glu Val Thr Cys
                 85                  90                  95

Arg Gly Ala Leu Ala Leu Pro Ser Ala Gln Leu Asp Leu Leu Gly Leu
            100                 105                 110

Gly Leu Val Glu Pro Gly Thr Gln Cys Gly Pro Arg Met Val Cys Asn
        115                 120                 125

Ser Asn His Asn Cys His Cys Ala Pro Gly Trp Ala Pro Pro Phe Cys
    130                 135                 140

Asp Lys Pro Gly Phe Gly Gly Ser Met Asp Ser Gly Pro Val Gln Ala
145                 150                 155                 160

Glu Asn His Asp Thr Phe Leu
                165
```


<210> 344
<211> 193
<212> PRT
<213> Homo sapiens

```
<400> 344
Ser Gly Tyr Cys Trp Asp Gly Ala Cys Pro Thr Leu Glu Gln Gln Cys
  1               5                  10                  15

Gln Gln Leu Trp Gly Pro Gly Ser His Pro Ala Pro Glu Ala Cys Phe
            20                  25                  30

Gln Val Val Asn Ser Ala Gly Asp Ala His Gly Asn Cys Gly Gln Asp
        35                  40                  45

Ser Glu Gly His Phe Leu Pro Cys Ala Gly Arg Asp Ala Leu Cys Gly
     50                  55                  60

Lys Leu Gln Cys Gln Gly Gly Lys Pro Ser Leu Leu Ala Pro His Met
 65                  70                  75                  80

Val Pro Val Asp Ser Thr Val His Leu Asp Gly Gln Glu Val Thr Cys
                 85                  90                  95

Arg Gly Ala Leu Ala Leu Pro Ser Ala Gln Leu Asp Leu Leu Gly Leu
            100                 105                 110

Gly Leu Val Glu Pro Gly Thr Gln Cys Gly Pro Arg Met Val Cys Gln
        115                 120                 125

Ser Arg Arg Cys Arg Lys Asn Ala Phe Gln Glu Leu Gln Arg Cys Leu
    130                 135                 140
```

```
Thr Ala Cys His Ser His Gly Val Cys Asn Ser Asn His Asn Cys His
145                 150                 155                 160

Cys Ala Pro Gly Trp Ala Pro Pro Phe Cys Asp Lys Pro Gly Phe Gly
                165                 170                 175

Gly Ser Met Asp Ser Gly Pro Val Gln Ala Glu Asn His Asp Thr Phe
            180                 185                 190

Leu
```

<210> 345
<211> 126
<212> PRT
<213> Homo sapiens

<400> 345

```
Ser Gly Tyr Cys Trp Asp Gly Ala Cys Pro Thr Leu Glu Gln Gln Cys
  1               5                  10                  15

Gln Gln Leu Trp Gly Pro Asp Gly Gln Glu Val Thr Cys Arg Gly Ala
            20                  25                  30

Leu Ala Leu Pro Ser Ala Gln Leu Asp Leu Leu Gly Leu Gly Leu Val
        35                  40                  45

Glu Pro Gly Thr Gln Cys Gly Pro Arg Met Val Cys Gln Ser Arg Arg
    50                  55                  60

Cys Arg Lys Asn Ala Phe Gln Glu Leu Gln Arg Cys Leu Thr Ala Cys
65                  70                  75                  80

His Ser His Gly Val Cys Asn Ser Asn His Asn Cys His Cys Ala Pro
                85                  90                  95

Gly Trp Ala Pro Pro Phe Cys Asp Lys Pro Gly Phe Gly Gly Ser Met
            100                 105                 110

Asp Ser Gly Pro Val Gln Ala Glu Asn His Asp Thr Phe Leu
        115                 120                 125
```

<210> 346
<211> 93
<212> PRT
<213> Homo sapiens

<400> 346

```
Ala Trp Cys Cys Tyr Arg Leu Pro Gly Ala His Leu Gln Arg Cys Ser
  1               5                  10                  15

Trp Gly Cys Arg Arg Asp Pro Ala Cys Ser Gly Pro Lys Asp Gly Pro
            20                  25                  30

His Arg Asp His Pro Leu Gly Gly Val His Pro Met Glu Leu Gly Pro
        35                  40                  45
```

```
Thr Ala Thr Gly Gln Pro Trp Pro Leu Asp Pro Glu Asn Ser His Glu
     50                  55                  60

Pro Ser Ser His Pro Glu Lys Pro Leu Pro Ala Val Ser Pro Asp Pro
 65                  70                  75                  80

Gln Ala Asp Gln Val Gln Met Pro Arg Ser Cys Leu Trp
                 85                  90
```

<210> 347
<211> 236
<212> PRT
<213> Homo sapiens

<400> 347

```
Ser Gly Tyr Cys Trp Asp Gly Ala Cys Pro Thr Leu Glu Gln Gln Cys
  1               5                  10                  15

Gln Gln Leu Trp Gly Pro Asp Gly Gln Glu Val Thr Cys Arg Gly Ala
             20                  25                  30

Leu Ala Leu Pro Ser Ala Gln Leu Asp Leu Leu Gly Leu Gly Leu Val
         35                  40                  45

Glu Pro Gly Thr Gln Cys Gly Pro Arg Met Val Cys Gln Ser Arg Arg
     50                  55                  60

Cys Arg Lys Asn Ala Phe Gln Glu Leu Gln Arg Cys Leu Thr Ala Cys
 65                  70                  75                  80

His Ser His Gly Val Cys Asn Ser Asn His Asn Cys His Cys Ala Pro
                 85                  90                  95

Gly Trp Ala Pro Pro Phe Cys Asp Lys Pro Gly Phe Gly Gly Ser Met
            100                 105                 110

Asp Ser Gly Pro Val Gln Ala Glu Asn His Asp Thr Phe Leu Leu Ala
        115                 120                 125

Met Leu Leu Ser Val Leu Leu Pro Leu Leu Pro Gly Ala Gly Leu Ala
    130                 135                 140

Trp Cys Cys Tyr Arg Leu Pro Gly Ala His Leu Gln Arg Cys Ser Trp
145                 150                 155                 160

Gly Cys Arg Arg Asp Pro Ala Cys Ser Gly Pro Lys Asp Gly Pro His
                165                 170                 175

Arg Asp His Pro Leu Gly Gly Val His Pro Met Glu Leu Gly Pro Thr
            180                 185                 190

Ala Thr Gly Gln Pro Trp Pro Leu Asp Pro Glu Asn Ser His Glu Pro
        195                 200                 205

Ser Ser His Pro Glu Lys Pro Leu Pro Ala Val Ser Pro Asp Pro Gln
    210                 215                 220
```

```
Ala Asp Gln Val Gln Met Pro Arg Ser Cys Leu Trp
225                 230                 235


<210> 348
<211> 302
<212> PRT
<213> Homo sapiens

<400> 348
Ser Gly Tyr Cys Trp Asp Gly Ala Cys Pro Thr Leu Glu Gln Gln Cys
  1               5                  10                  15

Gln Gln Leu Trp Gly Pro Gly Ser His Pro Ala Pro Glu Ala Cys Phe
             20                  25                  30

Gln Val Val Asn Ser Ala Gly Asp Ala His Gly Asn Cys Gly Gln Asp
         35                  40                  45

Ser Glu Gly His Phe Leu Pro Cys Ala Gly Arg Asp Ala Leu Cys Gly
     50                  55                  60

Lys Leu Gln Cys Gln Gly Gly Lys Pro Ser Leu Leu Ala Pro His Met
 65                  70                  75                  80

Val Pro Val Asp Ser Thr Val His Leu Asp Gly Gln Glu Val Thr Cys
                 85                  90                  95

Arg Gly Ala Leu Ala Leu Pro Ser Ala Gln Leu Asp Leu Leu Gly Leu
            100                 105                 110

Gly Leu Val Glu Pro Gly Thr Gln Cys Gly Pro Arg Met Val Cys Gln
        115                 120                 125

Ser Arg Arg Cys Arg Lys Asn Ala Phe Gln Glu Leu Gln Arg Cys Leu
    130                 135                 140

Thr Ala Cys His Ser His Gly Val Cys Asn Ser Asn His Asn Cys His
145                 150                 155                 160

Cys Ala Pro Gly Trp Ala Pro Pro Phe Cys Asp Lys Pro Gly Phe Gly
                165                 170                 175

Gly Ser Met Asp Ser Gly Pro Val Gln Ala Glu Asn His Asp Thr Phe
            180                 185                 190

Leu Leu Ala Met Leu Leu Ser Val Leu Leu Pro Leu Leu Pro Gly Ala
        195                 200                 205

Gly Leu Ala Trp Cys Cys Tyr Arg Leu Pro Gly Ala His Leu Gln Arg
    210                 215                 220

Cys Ser Trp Gly Cys Arg Arg Asp Pro Ala Cys Ser Gly Pro Lys Asp
225                 230                 235                 240

Gly Pro His Arg Asp His Pro Leu Gly Gly Val His Pro Met Glu Leu
                245                 250                 255
```

```
Gly Pro Thr Ala Thr Gly Gln Pro Trp Pro Leu Asp Pro Glu Asn Ser
            260                 265                 270

His Glu Pro Ser Ser His Pro Glu Lys Pro Leu Pro Ala Val Ser Pro
        275                 280                 285

Asp Pro Gln Asp Gln Val Gln Met Pro Arg Ser Cys Leu Trp
    290                 295                 300


<210> 349
<211> 235
<212> PRT
<213> Homo sapiens

<400> 349
Ser Gly Tyr Cys Trp Asp Gly Ala Cys Pro Thr Leu Glu Gln Gln Cys
  1               5                  10                  15

Gln Gln Leu Trp Gly Pro Asp Gly Gln Glu Val Thr Cys Arg Gly Ala
             20                  25                  30

Leu Ala Leu Pro Ser Ala Gln Leu Asp Leu Leu Gly Leu Gly Leu Val
         35                  40                  45

Glu Pro Gly Thr Gln Cys Gly Pro Arg Met Val Cys Gln Ser Arg Arg
     50                  55                  60

Cys Arg Lys Asn Ala Phe Gln Glu Leu Gln Arg Cys Leu Thr Ala Cys
 65                  70                  75                  80

His Ser His Gly Val Cys Asn Ser Asn His Asn Cys His Cys Ala Pro
                 85                  90                  95

Gly Trp Ala Pro Pro Phe Cys Asp Lys Pro Gly Phe Gly Gly Ser Met
            100                 105                 110

Asp Ser Gly Pro Val Gln Ala Glu Asn His Asp Thr Phe Leu Leu Ala
        115                 120                 125

Met Leu Leu Ser Val Leu Leu Pro Leu Leu Pro Gly Ala Gly Leu Ala
    130                 135                 140

Trp Cys Cys Tyr Arg Leu Pro Gly Ala His Leu Gln Arg Cys Ser Trp
145                 150                 155                 160

Gly Cys Arg Arg Asp Pro Ala Cys Ser Gly Pro Lys Asp Gly Pro His
                165                 170                 175

Arg Asp His Pro Leu Gly Gly Val His Pro Met Glu Leu Gly Pro Thr
            180                 185                 190

Ala Thr Gly Gln Pro Trp Pro Leu Asp Pro Glu Asn Ser His Glu Pro
        195                 200                 205

Ser Ser His Pro Glu Lys Pro Leu Pro Ala Val Ser Pro Asp Pro Gln
    210                 215                 220
```

Asp Gln Val Gln Met Pro Arg Ser Cys Leu Trp
225 230 235

<210> 350
<211> 339
<212> DNA
<213> Homo sapiens

<400> 350
cgggcacggg tcggccgcaa tccagcctgg gcggagccgg agttgcgagc cgctgcctag 60
aggccgagga gctcacagct atgggctgga ggccccggag agctcggggg accccgttgc 120
tgctgctgct actactgctg ctgctctggc cagtgccagg cgccggggtg cttcaaggac 180
atatccctgg gcagccagtc accccgcact gggtcctgga tggacaaccc tggcgcaccg 240
tcagcctgga ggagccggtc tcgaagccag acatggggct ggtggccctg gaggctgaag 300
gccaggagct cctgcttgag ctggagaaga accacaggc 339

<210> 351
<211> 225
<212> DNA
<213> Homo sapiens

<400> 351
cgggcacggg tcggccgcaa tccagcctgg gcggagccgg agttgcgagc cgctgcctag 60
aggccgagga gctcacagct atgggctgga ggccccggag agctcggggg accccgttgc 120
tgctgctgct actactgctg ctgctctggc cagtgccagg cgccggggtg cttcaaggac 180
atatccctgg gcagccagtc accccgcact gggtcctgga tggac 225

<210> 352
<211> 562
<212> DNA
<213> Homo sapiens

<400> 352
gcctagaggc cgaggagctc acagctatgg gctggaggcc ccggagagct cgggggaccc 60
cgttgctgct gctgctacta ctgctgctgc tctggccagt gccaggcgcc ggggtgcttc 120
aaggacatat ccctgggcag ccagtcaccc cgcactgggt cctggatgga caaccctggc 180
gcaccgtcag cctggaggag ccggtctcga agccagacat ggggctggtg gccctggagg 240
ctgaaggcca ggagctcctg cttgagctgg agaagaacca caggctgctg gccccaggat 300
acatagaaac ccactacggc ccagatgggc agccagtggt gctggccccc aaccacacgg 360
tgagatgctt ccatgggctc tgggatgcac cgccagagga tcattgccac taccaagggc 420
gagtaagggg cttccccgac tcctgggtag tcctctgcac ctgctctggg atgagtggcc 480
tgatcaccct cagcaggaat gccagctatt atctgcgtcc ctggccaccc cggggctcca 540
aggacttctc aacccacgag at 562

<210> 353
<211> 362
<212> DNA
<213> Homo sapiens

<400> 353
gaggccgagg agctcacagc tatgggctgg aggccccgga gagctcgggg gaccccgttg 60
ctgctgctgc tactactgct gctgctctgg ccagtgccag gcgccggggt gcttcaagga 120
catatccctg ggcagccagt caccccgcac tgggtcctgg atggacaacc ctggcgcacc 180

gtcagcctgg aggagccggt ctcgaagcca gacatggggc tggtggccct ggaggctgaa 240
ggccaggagc tcctgcttga gctggagaag aaccatggcc tgatcaccct cagcaggaat 300
gccagctatt atctgcgtcc ctggccaccc cggggctcca aggacttctc aacccacgag 360
at 362

<210> 354
<211> 518
<212> DNA
<213> Homo sapiens

<400> 354
gaggccgagg agctcacagc tatgggctgg aggccccgga gagctcgggg gaccccgttg 60
ctgctgctgc tactactgct gctgctctgg ccagtgccag gcgccggggt gcttcaagga 120
catatccctg ggcagccagt caccccgcac tgggtcctgg atggacaacc ctggcgcacc 180
gtcagcctgg aggagccggt ctcgaagcca gacatggggc tggtggccct ggaggctgaa 240
ggccaggagc tcctgcttga gctggagaag aaccacaggc tgctggcccc aggatacata 300
gaaacccact acggccccaga tgggcagcca gtggtgctgg cccccaacca cacggatcat 360
tgccactacc aagggcgagt aaggggcttc cccgactcct gggtagtcct ctgcacctgc 420
tctgggatga gtggcctgat caccctcagc aggaatgcca gctattatct gcgtccctgg 480
ccaccccggg gctccaagga cttctcaacc cacgagat 518

<210> 355
<211> 506
<212> DNA
<213> Homo sapiens

<400> 355
ctggccccag gatacataga aacccactac ggcccagatg ggcagccagt ggtgctggcc 60
cccaaccaca cggatcattg ccactaccaa gggcgagtaa ggggcttccc cgactcctgg 120
gtagtcctct gcacctgctc tgggatgagt ggcctgatca ccctcagcag gaatgccagc 180
tattatctgc gtccctggcc accccggggc tccaaggact tctcaaccca cgagatcttt 240
cggatggagc agctgctcac ctggaaagga acctgtggcc acagggatcc tgggaacaaa 300
gcgggcatga ccagccttcc tggtggtccc cagagcaggg gcaggcgaaa agcgcgcagg 360
acccggaagt acctggaact gtacattgtg gcagaccaca ccctgttctt gactcggcac 420
cgaaacttga accacaccaa acagcgtctc ctggaagtcg ccaactacgt ggaccagctt 480
ctcaggactc tggacattca ggtggc 506

<210> 356
<211> 503
<212> DNA
<213> Homo sapiens

<400> 356
cagtggctac tgctgggatg gcgcatgtcc cacgctggag cagcagtgcc agcagctctg 60
ggggcctggc tcccacccag ctcccgaggc ctgtttccag gtggtgaact ctgcgggaga 120
tgctcatgga aactgcggcc aggacagcga gggccacttc ctgccctgtg cagggaggga 180
tgccctgtgt gggaagctgc agtgccaggg tggaaagccc agcctgctcg caccgcacat 240
ggtgccagtg gactctaccg ttcacctaga tggccaggaa gtgacttgtc ggggagcctt 300
ggcactcccc agtgcccagc tggacctgct tggcctgggc ctggtagagc caggcaccca 360
gtgtggacct agaatggttt gcaatagcaa ccataactgc cactgtgctc caggctgggc 420
tccacccttc tgtgacaagc caggctttgg tggcagcatg gacagtggcc ctgtgcaggc 480
tgaaaaccat gacaccttcc tgc 503

<210> 357

<211> 581
<212> DNA
<213> Homo sapiens

<400> 357
cagtggctac tgctgggatg gcgcatgtcc cacgctggag cagcagtgcc agcagctctg 60
ggggcctggc tcccacccag ctcccgaggc ctgtttccag gtggtgaact ctgcgggaga 120
tgctcatgga aactgcggcc aggacagcga gggccacttc ctgccctgtg cagggaggga 180
tgccctgtgt gggaagctgc agtgccaggg tggaaagccc agcctgctcg caccgcacat 240
ggtgccagtg gactctaccg ttcacctaga tggccaggaa gtgacttgtc ggggagcctt 300
ggcactcccc agtgcccagc tggacctgct tggcctgggc ctggtagagc caggcaccca 360
gtgtggacct agaatggtgt gccagagcag gcgctgcagg aagaatgcct tccaggagct 420
tcagcgctgc ctgactgcct gccacagcca cggggtttgc aatagcaacc ataactgcca 480
ctgtgctcca ggctgggctc cacccttctg tgacaagcca ggctttggtg gcagcatgga 540
cagtggccct gtgcaggctg aaaaccatga caccttcctg c 581

<210> 358
<211> 380
<212> DNA
<213> Homo sapiens

<400> 358
cagtggctac tgctgggatg gcgcatgtcc cacgctggag cagcagtgcc agcagctctg 60
ggggcctgat ggccaggaag tgacttgtcg gggagccttg gcactcccca gtgcccagct 120
ggacctgctt ggcctgggcc tggtagagcc aggcacccag tgtggaccta gaatggtgtg 180
ccagagcagg cgctgcagga agaatgcctt ccaggagctt cagcgctgcc tgactgcctg 240
ccacagccac ggggtttgca atagcaacca taactgccac tgtgctccag gctgggctcc 300
acccttctgt gacaagccag gctttggtgg cagcatggac agtggccctg tgcaggctga 360
aaaccatgac accttcctgc 380

<210> 359
<211> 324
<212> DNA
<213> Homo sapiens

<400> 359
ggcctggtgt tgctaccgac tcccaggagc ccatctgcag cgatgcagct ggggctgcag 60
aagggaccct gcgtgcagtg gccccaaaga tggcccacac agggaccacc ccctgggcgg 120
cgttcacccc atggagttgg gccccacagc cactggacag ccctggcccc tggaccctga 180
gaactctcat gagcccagca gccaccctga gaagcctctg ccagcagtct cgcctgaccc 240
ccaagcagat caagtccaga tgccaagatc ctgcctctgg tgagaggtag ctcctaaaat 300
gaacagattt aaagacaggt ggcc 324

<210> 360
<211> 753
<212> DNA
<213> Homo sapiens

<400> 360
cagtggctac tgctgggatg gcgcatgtcc cacgctggag cagcagtgcc agcagctctg 60
ggggcctgat ggccaggaag tgacttgtcg gggagccttg gcactcccca gtgcccagct 120
ggacctgctt ggcctgggcc tggtagagcc aggcacccag tgtggaccta gaatggtgtg 180
ccagagcagg cgctgcagga agaatgcctt ccaggagctt cagcgctgcc tgactgcctg 240
ccacagccac ggggtttgca atagcaacca taactgccac tgtgctccag gctgggctcc 300
acccttctgt gacaagccag gctttggtgg cagcatggac agtggccctg tgcaggctga 360

aaaccatgac accttcctgc tggccatgct cctcagcgtc ctgctgcctc tgctcccagg 420
ggccggcctg gcctggtgtt gctaccgact cccaggagcc catctgcagc gatgcagctg 480
gggctgcaga agggaccctg cgtgcagtgg ccccaaagat ggcccacaca gggaccaccc 540
cctgggcggc gttcacccca tggagttggg ccccacagcc actggacagc cctggccctc 600
ggaccctgag aactctcatg agcccagcag ccaccctgag aagcctctgc cagcagtctc 660
gcctgacccc caagcagatc aagtccagat gccaagatcc tgcctctggt gagaggtagc 720
tcctaaaatg aacagattta aagacaggtg gcc 753

<210> 361
<211> 1154
<212> DNA
<213> Homo sapiens

<400> 361
cagtggctac tgctgggatg gcgcatgtcc cacgctggag cagcagtgcc agcagctctg 60
ggggcctggc tcccacccag ctcccgaggc ctgtttccag gtggtgaact ctgcgggaga 120
tgctcatgga aactgcggcc aggacagcga gggccacttc ctgccctgtg cagggaggga 180
tgccctgtgt gggaagctgc agtgccaggg tggaaagccc agcctgctcg caccgcacat 240
ggtgccagtg gactctaccg ttcacctaga tggccaggaa gtgacttgtc ggggagcctt 300
ggcactcccc agtgcccagc tggacctgct tggcctgggc ctggtagagc caggcaccca 360
gtgtggacct agaatggtgt gccagagcag gcgctgcagg aagaatgcct tccaggagct 420
tcagcgctgc ctgactgcct gccacagcca cggggtttgc aatagcaacc ataactgcca 480
ctgtgctcca ggctgggctc cacccttctg tgacaagcca ggctttggtg gcagcatgga 540
cagtggccct gtgcaggctg aaaaccatga caccttcctg ctggccatgc tcctcagcgt 600
cctgctgcct ctgctcccag gggccggcct ggcctggtgt tgctaccgac tcccaggagc 660
ccatctgcag cgatgcagct ggggctgcag aagggaccct gcgtgcagtg gccccaaaga 720
tggcccacac agggaccacc ccctgggcgg cgttcacccc atggagttgg gccccacagc 780
cactggacag ccctggcccc tggaccctga gaactctcat gagccccagca gccaccctga 840
gaagcctctg ccagcagtct cgcctgaccc ccaagatcaa gtccagatgc caagatcctg 900
cctctggtga gaggtagctc ctaaaatgaa cagatttaaa gacaggtggc cactgacagc 960
cactccagga acttgaactg caggggcaga gccagtgaat caccggacct ccagcacctg 1020
caggcagctt ggaagtttct tccccgagtg gagcttcgac ccacccactc caggaaccca 1080
gagccacatt agaagttcct gagggctgga gaacactgct gggcacactc tccagctcaa 1140
taaaccatca gtcc 1154

<210> 362
<211> 953
<212> DNA
<213> Homo sapiens

<400> 362
cagtggctac tgctgggatg gcgcatgtcc cacgctggag cagcagtgcc agcagctctg 60
ggggcctgat ggccaggaag tgactttgtcg gggagccttg gcactcccca gtgcccagct 120
ggacctgctt ggcctgggcc tggtagagcc aggcacccag tgtggaccta gaatggtgtg 180
ccagagcagg cgctgcagga agaatgcctt ccaggagctt cagcgctgcc tgactgcctg 240
ccacagccac gggtttgca atagcaacca taactgccac tgtgctccag gctgggctcc 300
acccttctgt gacaagccag gctttggtgg cagcatggac agtggccctg tgcaggctga 360
aaaccatgac accttcctgc tggccatgct cctcagcgtc ctgctgcctc tgctcccagg 420
ggccggcctg gcctggtgtt gctaccgact cccaggagcc catctgcagc gatgcagctg 480
gggctgcaga agggaccctg cgtgcagtgg ccccaaagat ggcccacaca gggaccaccc 540
cctgggcggc gttcacccca tggagttggg ccccacagcc actggacagc cctggccctc 600
ggaccctgag aactctcatg agcccagcag ccaccctgag aagcctctgc cagcagtctc 660
gcctgacccc caagatcaag tccagatgcc aagatcctgc ctctggtgag aggtagctcc 720
taaaatgaac agatttaaag acaggtggcc actgacagcc actccaggaa cttgaactgc 780
aggggcagag ccagtgaatc accggacctc cagcacctgc aggcagcttg gaagtttctt 840
ccccgagtgg agcttcgacc cacccactcc aggaacccag agccacatta gaagttcctg 900

agggctggag aacactgctg ggcacactct ccagctcaat aaaccatcag tcc 953

<210> 363
<211> 812
<212> PRT
<213> Homo sapiens

<400> 363

```
Met Gly Trp Arg Pro Arg Arg Ala Arg Gly Thr Pro Leu Leu Leu Leu
  1               5                  10                  15

Leu Leu Leu Leu Leu Leu Trp Pro Val Pro Gly Ala Gly Val Leu Gln
            20                  25                  30

Gly His Ile Pro Gly Gln Pro Val Thr Pro His Trp Val Leu Asp Gly
        35                  40                  45

Gln Pro Trp Arg Thr Val Ser Leu Glu Glu Pro Val Ser Lys Pro Asp
    50                  55                  60

Met Gly Leu Val Ala Leu Glu Ala Glu Gly Gln Glu Leu Leu Leu Glu
65                  70                  75                  80

Leu Glu Lys Asn His Arg Leu Leu Ala Pro Gly Tyr Ile Glu Thr His
                85                  90                  95

Tyr Gly Pro Asp Gly Gln Pro Val Val Leu Ala Pro Asn His Thr Asp
            100                 105                 110

His Cys His Tyr Gln Gly Arg Val Arg Gly Phe Pro Asp Ser Trp Val
        115                 120                 125

Val Leu Cys Thr Cys Ser Gly Met Ser Gly Leu Ile Thr Leu Ser Arg
    130                 135                 140

Asn Ala Ser Tyr Tyr Leu Arg Pro Trp Pro Pro Arg Gly Ser Lys Asp
145                 150                 155                 160

Phe Ser Thr His Glu Ile Phe Arg Met Glu Gln Leu Leu Thr Trp Lys
                165                 170                 175

Gly Thr Cys Gly His Arg Asp Pro Gly Asn Lys Ala Gly Met Thr Ser
            180                 185                 190

Leu Pro Gly Gly Pro Gln Ser Arg Gly Arg Arg Glu Ala Arg Arg Thr
        195                 200                 205

Arg Lys Tyr Leu Glu Leu Tyr Ile Val Ala Asp His Thr Leu Phe Leu
    210                 215                 220

Thr Arg His Arg Asn Leu Asn His Thr Lys Gln Arg Leu Leu Glu Val
225                 230                 235                 240

Ala Asn Tyr Val Asp Gln Leu Leu Arg Thr Leu Asp Ile Gln Val Ala
                245                 250                 255
```

```
Leu Thr Gly Leu Glu Val Trp Thr Glu Arg Asp Arg Ser Arg Val Thr
            260                 265                 270

Gln Asp Ala Asn Ala Thr Leu Trp Ala Phe Leu Gln Trp Arg Arg Gly
        275                 280                 285

Leu Trp Ala Gln Arg Pro His Asp Ser Ala Gln Leu Leu Thr Gly Arg
    290                 295                 300

Ala Phe Gln Gly Ala Thr Val Gly Leu Ala Pro Val Glu Gly Met Cys
305                 310                 315                 320

Arg Ala Glu Ser Ser Gly Gly Val Ser Thr Asp His Ser Glu Leu Pro
                325                 330                 335

Ile Gly Ala Ala Ala Thr Met Ala His Glu Ile Gly His Ser Leu Gly
            340                 345                 350

Leu Ser His Asp Pro Asp Gly Cys Cys Val Glu Ala Ala Ala Glu Ser
        355                 360                 365

Gly Gly Cys Val Met Ala Ala Ala Thr Gly His Pro Phe Pro Arg Val
    370                 375                 380

Phe Ser Ala Cys Ser Arg Arg Gln Leu Arg Ala Phe Phe Arg Lys Gly
385                 390                 395                 400

Gly Gly Ala Cys Leu Ser Asn Ala Pro Asp Pro Gly Leu Pro Val Pro
                405                 410                 415

Pro Ala Leu Cys Gly Asn Gly Phe Val Glu Ala Gly Glu Glu Cys Asp
            420                 425                 430

Cys Gly Pro Gly Gln Glu Cys Arg Asp Leu Cys Cys Phe Ala His Asn
        435                 440                 445

Cys Ser Leu Arg Pro Gly Ala Gln Cys Ala His Gly Asp Cys Cys Val
    450                 455                 460

Arg Cys Leu Leu Lys Pro Ala Gly Ala Leu Cys Arg Gln Ala Met Gly
465                 470                 475                 480

Asp Cys Asp Leu Pro Glu Phe Cys Thr Gly Thr Ser Ser His Cys Pro
                485                 490                 495

Pro Asp Val Tyr Leu Leu Asp Gly Ser Pro Cys Ala Arg Gly Ser Gly
            500                 505                 510

Tyr Cys Trp Asp Gly Ala Cys Pro Thr Leu Glu Gln Gln Cys Gln Gln
        515                 520                 525

Leu Trp Gly Pro Gly Ser His Pro Ala Pro Glu Ala Cys Phe Gln Val
    530                 535                 540

Val Asn Ser Ala Gly Asp Ala His Gly Asn Cys Gly Gln Asp Ser Glu
545                 550                 555                 560
```

```
Gly His Phe Leu Pro Cys Ala Gly Arg Asp Ala Leu Cys Gly Lys Leu
                565                 570                 575

Gln Cys Gln Gly Gly Lys Pro Ser Leu Leu Ala Pro His Met Val Pro
            580                 585                 590

Val Asp Ser Thr Val His Leu Asp Gly Gln Glu Val Thr Cys Arg Gly
        595                 600                 605

Ala Leu Ala Leu Pro Ser Ala Gln Leu Asp Leu Leu Gly Leu Gly Leu
    610                 615                 620

Val Glu Pro Gly Thr Gln Cys Gly Pro Arg Met Val Cys Gln Ser Arg
625                 630                 635                 640

Arg Cys Arg Lys Asn Ala Phe Gln Glu Leu Gln Arg Cys Leu Thr Ala
                645                 650                 655

Cys His Ser His Gly Val Cys Asn Ser Asn His Asn Cys His Cys Ala
            660                 665                 670

Pro Gly Trp Ala Pro Pro Phe Cys Asp Lys Pro Gly Phe Gly Gly Ser
        675                 680                 685

Met Asp Ser Gly Pro Val Gln Ala Glu Asn His Asp Thr Phe Leu Leu
    690                 695                 700

Ala Met Leu Leu Ser Val Leu Leu Pro Leu Leu Pro Gly Ala Gly Leu
705                 710                 715                 720

Ala Trp Cys Cys Tyr Arg Leu Pro Gly Ala His Leu Gln Arg Cys Ser
                725                 730                 735

Trp Gly Cys Arg Arg Asp Pro Ala Cys Ser Gly Pro Lys Asp Gly Pro
            740                 745                 750

His Arg Asp His Pro Leu Gly Gly Val His Pro Met Glu Leu Gly Pro
        755                 760                 765

Thr Ala Thr Gly Gln Pro Trp Pro Leu Asp Pro Glu Asn Ser His Glu
    770                 775                 780

Pro Ser Ser His Pro Glu Lys Pro Leu Pro Ala Val Ser Pro Asp Pro
785                 790                 795                 800

Gln Asp Gln Val Gln Met Pro Arg Ser Cys Leu Trp
                805                 810
```